

## H-RAIL

### INSTALLATION MANUAL



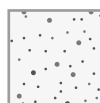
S235



GL24H



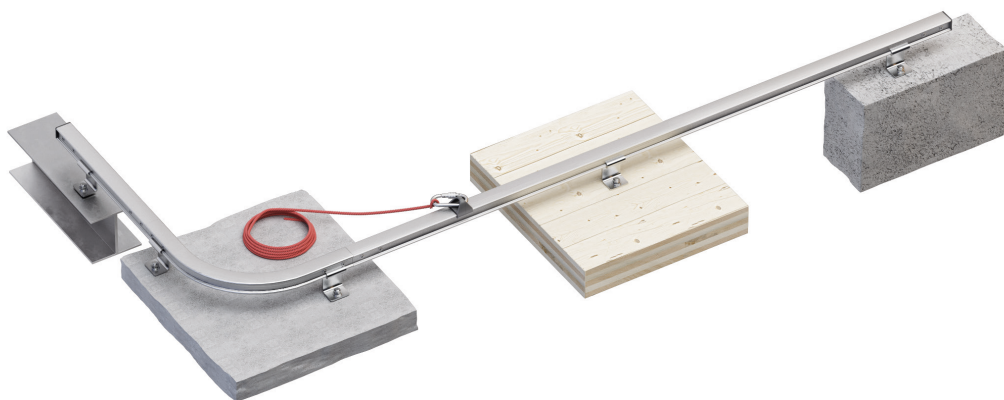
CLT



C20/25

rothoblaas

CERTIFIED  
SUPPORTS



EN 795:2012 D  
CEN/TS 16415:013  
UNI 11578:2015 D



⚠ read also:



H-RAIL  
Installation  
Manual

+



H-RAIL  
Safety  
Regulations

=



EN  
795:2012  
D

CEN/TS  
16415:2013

UNI  
11578:2015  
D

AS/NZS  
1891.4:2009

AS/NZS  
1891.2:2001

## SAFETY INSTRUCTIONS

**IT** L'installazione e/o utilizzo del prodotto Rotho Blaas è permessa solo a personale esperto previa lettura e comprensione del **1 MANUALE D'INSTALLAZIONE** e delle **2 NORME DI SICUREZZA** nella lingua del relativo Paese di utilizzo.

**DE** Die Installation und/oder die Verwendung des Produkts von Rotho Blaas ist ausschließlich Fachpersonal vorbehalten, nachdem es das **1 INSTALLATIONSHANDBUCH** und die **2 SICHERHEITSVORSCHRIFTEN** in der Sprache des Verwendungslandes gelesen und verstanden hat.

**EN** Only qualified personnel may install and/or use this Rotho Blaas product, after reading and understanding the **1 INSTALLATION MANUAL** and the **2 SAFETY REGULATIONS**, in the language of the country of use.

**ES** La instalación y/o el uso del producto Rotho Blaas solo están permitidos al personal experto después de haber leído y comprendido el **1 MANUAL DE INSTALACIÓN** y las **2 NORMAS DE SEGURIDAD** en el idioma del país en el que se utiliza.

**FR** Seul le personnel expérimenté peut installer et/ou utiliser ce produit Rotho Blaas, après avoir lu et compris le **1 MANUEL D'INSTALLATION** et les **2 NORMES DE SÉCURITÉ** dans la langue du pays où le produit est utilisé.

**PT** A instalação e/ou utilização do produto RothoBlaas só é permitida a pessoal especializado após a leitura e compreensão do **1 INFORMAÇÕES NECESSÁRIAS** e das **2 NORMAS DE SEGURANÇA** na língua do respetivo país onde será utilizado.

**RU** Кустановке и (или) использованию продукции Rotho Blaas допускается только высококвалифицированный персонал после обязательного прочтения и усвоения **1 РУКОВОДСТВО ПО УСТАНОВКЕ** и **2 ПРАВИЛ ТЕХНИКИ БЕЗОПАСНОСТИ** на языке соответствующей страны использования.

**CS** Instalace a/nebo použití výrobku Rotho Blaas je povoleno pouze odborným osobám po přečtení a pochopení **1 NÁVODU K INSTALACI** a **2 BEZPEČNOSTNÍCH PŘEDPISŮ** v jazyce příslušné země použití.

**DA** Kun kvalificeret personale må installere og/eller bruge dette Rotho Blaas-produkt efter at have læst og forstået den **1 INSTALLATIONSMANUALEN** og **2 SIKKERHEDSFORSKRIFTERNE** på brugerens sprog.

**EL** Η εγκατάσταση ή/και η χρήση του προϊόντος Rotho Blaas επιτρέπεται μόνο σε έμπειρο προσωπικό που έχει διαβάσει και κατανοήσει τις **1 ΕΓΧΕΙΡΙΔΙΟ ΕΓΚΑΤΑΣΤΑΣΗΣ** και τους **2 ΚΑΝΟΝΙΣΜΟΥΣ ΑΣΦΑΛΕΙΑΣ** στη γλώσσα της σχετικής χώρας χρήσης.

**ET** Antud Rotho Blaasi toodet tohib paigaldada ja / või kasutada ainult kvalifitseeritud personal, kes on lugenud kasutamise riigi keeles **1 PAIGALDUSJUHENDIS** ja **2 OHUTUSESKIRJU** ning nendest aru saanud.

**FI** Tämän Rotho Blaas -tuotteen asennus ja/tai käyttö on sallittu vain asiantuntevan henkilöstön toimesta sen jälkeen, kun he ovat lukeneet ja ymmärtäneet **1 ASENNUSOHJEIDEN** ja **2 TURVALLISUUSMÄÄRÄYKSET** käyttömaan kielellä.

**HR** Postavljanje i/ili uporaba proizvoda Rotho Blaas dopuštene je samo stručnom osoblju koje je prethodno pročitao i razumjelo **1 UPUTA ZA MONTAŽU** kao i **2 PROPISE O SIGURNOSTI** na jeziku zemlje uporabe.



**1**  
H-RAIL  
Installation  
Manual

+



**2**  
H-RAIL  
Safety  
Regulations



## SAFETY INSTRUCTIONS

**HU** A Rotho Blaas terméket kizárólag hozzáértő személyzet szerelheti be és/vagy használhatja, az adott országnak megfelelő nyelvű **1 TELEPÍTÉSI KEZIKÖNYV** és **2 BIZTONSÁGI SZABÁLYOK** elolvasása és megértése után.

**IS** Aðeins þjálfað starfsfólk má setja upp og/eða nota þessa Rotho Blaas-vöru eftir að hafa lesið og skilið **1 UPPSETNINGARHANDBOKAR** og **2 REGLUGERÐIR UM ÖRYGGI** á tungumáli þess lands sem varan er notuð í.

**LT** Produktą „Rotho Blaas” montuoti ir (arba) naudoti leidžiama tik patyrusiam personalui, prieš tai perskačius ir supratus **1 MONTAVIMO VADOVE** ir **2 SAUGOS TAISYKLES** atitinkamos šalies, kurioje eksploatuojama, kalbą.

**LV** Rotho Blaas produktu uzstādīšana un/vai lietošana ir atļauta tikai pieredzējušam darbiniekam pēc **1 UZSTADĪŠANAS ROKASGRĀMATĀ** un **2 DROŠĪBAS NOTEIKUMU** izlasīšanas un izpratnes attiecīgās valsts valodā, kurā produkts tiks lietots.

**NL** De installatie en/of het gebruik van het product Rotho Blaas is voorbehouden aan uitsluitend vakbekwaam personeel dat de **1 INSTALLATIEHANDLEIDING** en de **2 VEILIGHEIDSVOORSCHRIFTEN** in de taal van het land van gebruik gelezen en begrepen heeft.

**NO** Dette Rotho Blaas-produktet skal bare installeres og/eller brukes av kvalifisert personell som har lest og forstått **1 INSTALLASJONSHÅNDBOKEN** og **2 SIKKERHETSFORSKRIFTENE**, på det språket som brukes i landet produktet anvendes.

**PL** Instalacji i/lub użytkowania produktu Rotho Blaas może dokonać wyłącznie doświadczony personel, który przeczytał i zrozumiał **1 MANUAL DE INSTALAÇÃO** oraz **2 NORMY BEZPIECZEŃSTWA** w języku kraju użytkowania.

**RO** Instalarea și/sau utilizarea produsului Rotho Blaas este permisă numai personalului expert, după ce a citit și înțeles **1 MANUALUL DE INSTALARE** și **2 NORMELE DE SIGURANȚĂ** în limba țării de utilizare a produsului.

**SK** Inštalácia a/alebo používanie produktu Rotho Blaas je povolené len skúsenému personálu po predchádzajúcom prečítaní a pochopení **1 NAVODE NA INŠTALÁCIU** a **2 BEZPEČNOSTNÝCH NORIEM** v jazyku príslušnej krajiny používania.

**SL** Ta proizvod Rotho Blaas lahko namesti in/ali uporablja samo izkušeno osebe, ki je prebralo in razume vse **1 NAVODILIH ZA VGRADNJO** in **2 VARNOSTNE PREDPISE** v jeziku države njegove uporabe.

**SV** Endast erfaren personal får installera och/eller använda den här Rotho Blaas-produkten efter att **1 INSTALLATIONSANVISNINGARNA** och **2 SÄKERHETSFORESKRIFTER** har lästs igenom på språket i installationslandet.

**TR** Sadece yetkili personel, **1 KURULUM KILAVUZUNDA VE 2 GÜVENLİK MEVZUATINI** ürünün kullanıldığı ülke dilinde okuyup anladıktan sonra Rotho Blaas ürününü kurabilir ve/veya kullanabilir.

**JA** Rotho Blaas製品の施工および使用は、資格を有する専門家のみに許可されています。施工および使用の前に、必ず使用する国の言語で**1設置マニュアル**と**2安全規則**をお読み下さい。

**ZH** 只有具备合格资质的人员在阅读并理解以使用国的语言编写的**1安装手册**和**2安全规程**后才能安装和/或使用该Rotho Blaas产品。

**AR** يمكن فقط للفنيين المؤهلين باستخدام أو تركيب منتج Rotho Blaas بعد قراءة وفهم دليل التثبيت **1** نظم السلامة **2** بلغة البلد المستخدم فيها المنتج



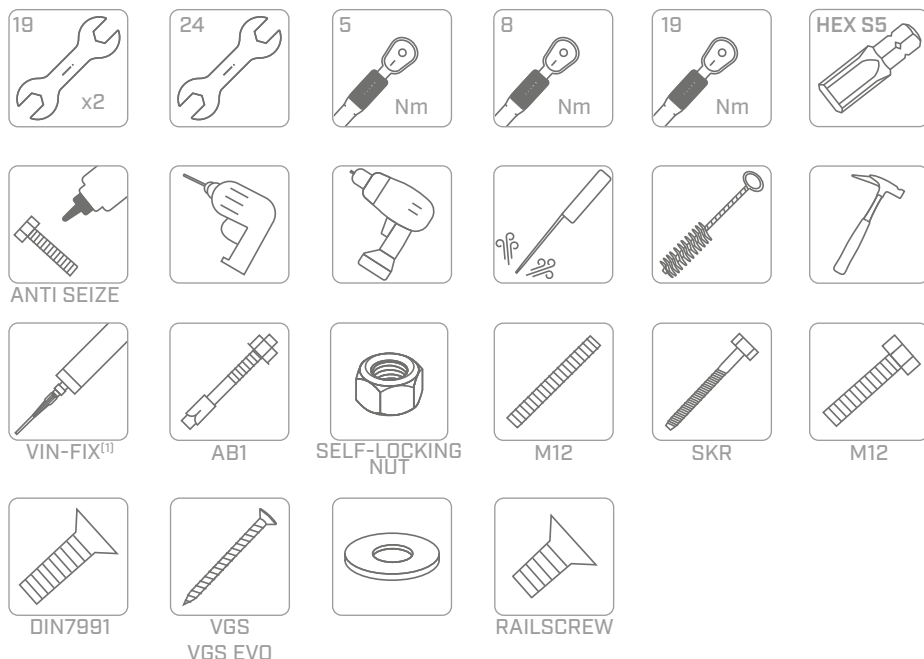
**1**  
H-RAIL  
Installation  
Manual

+



**2**  
H-RAIL  
Safety  
Regulations

## TOOLS



<sup>(1)</sup> VINYLESTER CHEMICAL ANCHOR WITHOUT STYRENE

## INFORMATION

Type

**Rothoblaas  
H-RAIL**

Related standard(s)

**EN 795:2012 D  
CEN/TS 16415:2013  
UNI 11578:2015 D**

Name or logo of manufacturer/distributor

**ROTHOBLAAS**

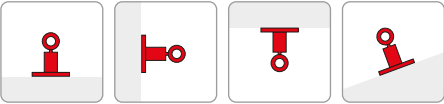
Batch number and year of manufacture

**N/MM/YYYY**

(N = lot number - MM = month - YYYY = year)

# PRODUCT INFORMATION

|                     |                      |                        |                       |                       |
|---------------------|----------------------|------------------------|-----------------------|-----------------------|
| EN<br>795:2012<br>D | CEN/TS<br>16415:2013 | UNI<br>11578:2015<br>D | AS/NZS<br>1891.4:2009 | AS/NZS<br>1891.4:2001 |
|---------------------|----------------------|------------------------|-----------------------|-----------------------|



|                           |                     |                                  |             |
|---------------------------|---------------------|----------------------------------|-------------|
| AL<br>EN-AW<br>6063<br>T6 | AL<br>EN-AW<br>6082 | 1.4301<br>AISI304<br><b>INOX</b> | <b>PA,6</b> |
|---------------------------|---------------------|----------------------------------|-------------|

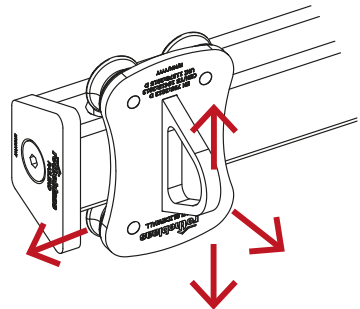
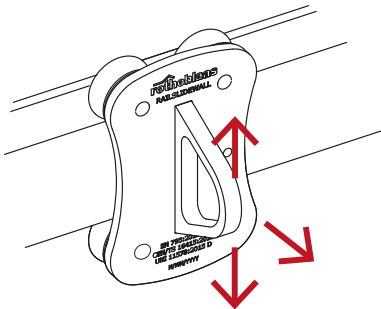
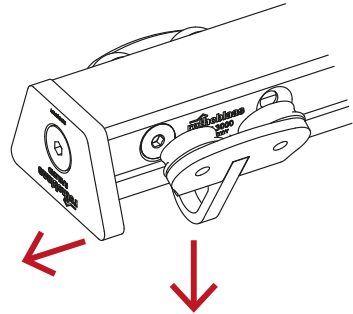
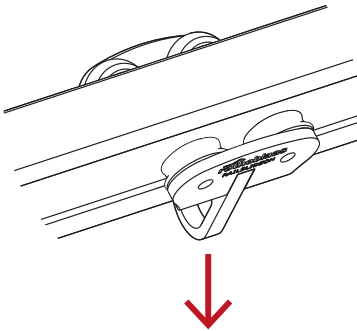
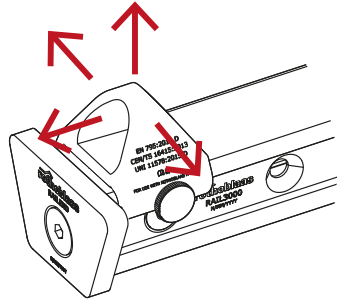
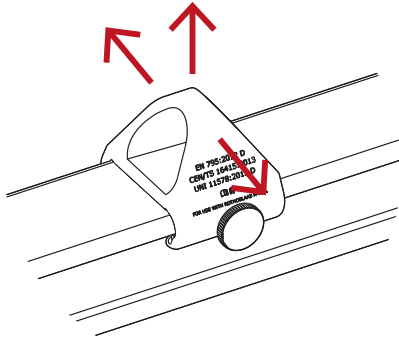
EN 795:2012 D  
CEN/TS 16415:013  
UNI 11578:2015 D 

- IT** ⚠ Verificare idoneità statica del sottofondo di montaggio!
- DE** ⚠ Die statische Eignung des Montageuntergrundes sicherstellen!
- EN** ⚠ Check the static suitability of the installation substrate!
- ES** ⚠ ¡Compruebe la idoneidad estática del sustrato de montaje!
- FR** ⚠ Vérifier l'adéquation statique du substrat d'assemblage!

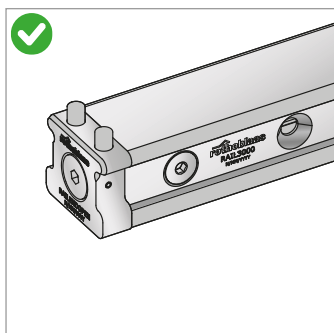
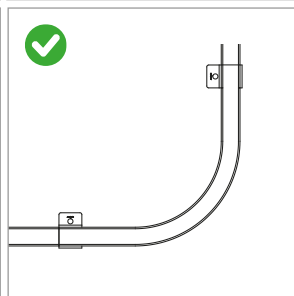
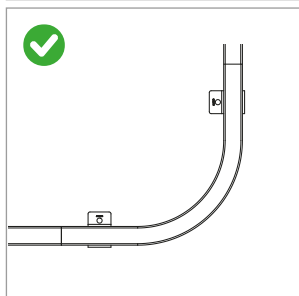
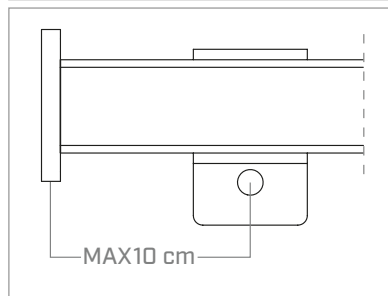
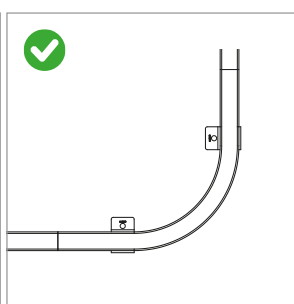
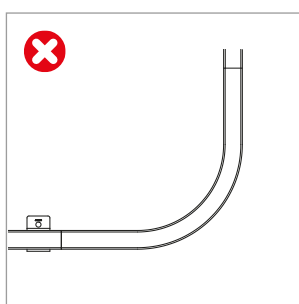
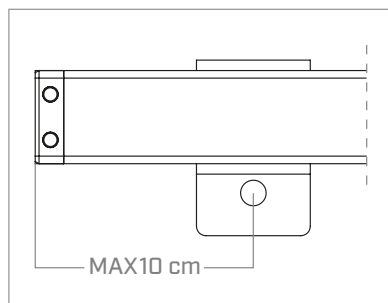
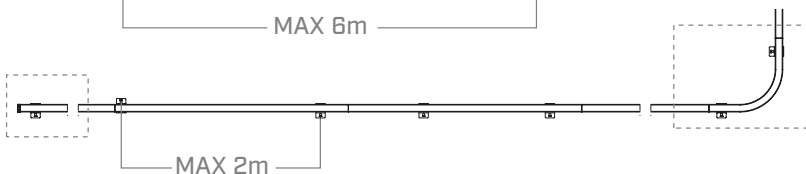
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| <br><b>H-RAIL</b><br>EN 795:2012 D<br>CEN/TS 16415:2013<br>UNI 11578:2015 D<br>FOR USE ONLY WITH:<br><input type="checkbox"/> RAILSLIDE <input type="checkbox"/> RAILSLIDEWALL <input type="checkbox"/> RAILSLIDEOH |  | INSTALLATION DATE <input type="text"/><br>YEARLY INSPECTION DATE<br><table border="1"> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> <tr><td></td><td></td></tr> </table> |  |  |  |  |  |  |  |  |  |  |
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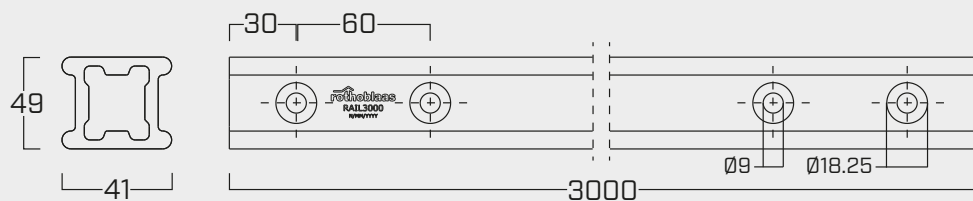
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|---------------------------------------------------------------------------------------------------------------------|
| <br><b>RAIL3000</b><br>N/MM/YYYY |
|---------------------------------------------------------------------------------------------------------------------|

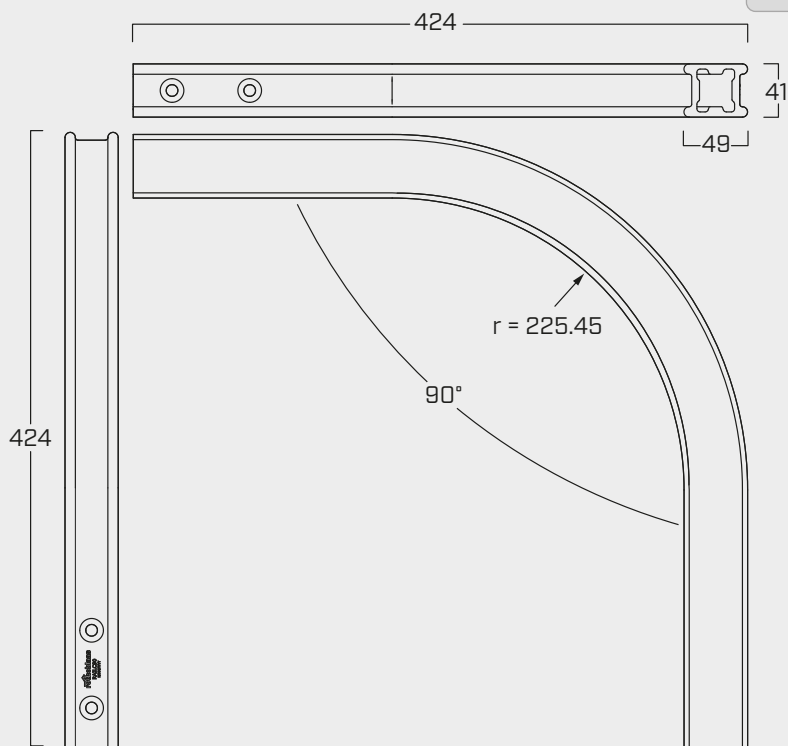
■ LOAD TEST MODELS

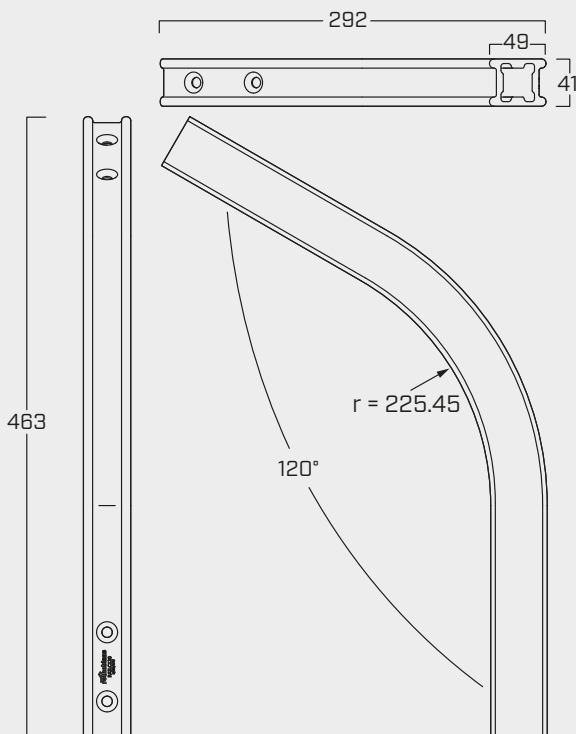


## TECHNICAL DATA



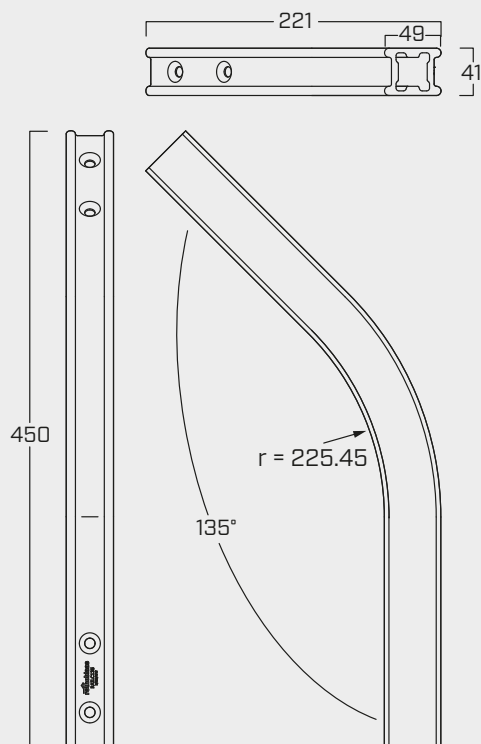






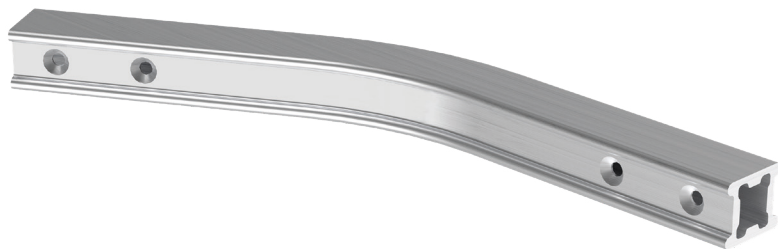
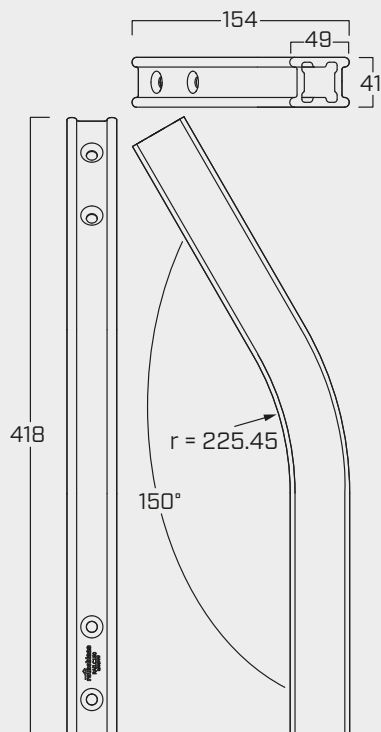


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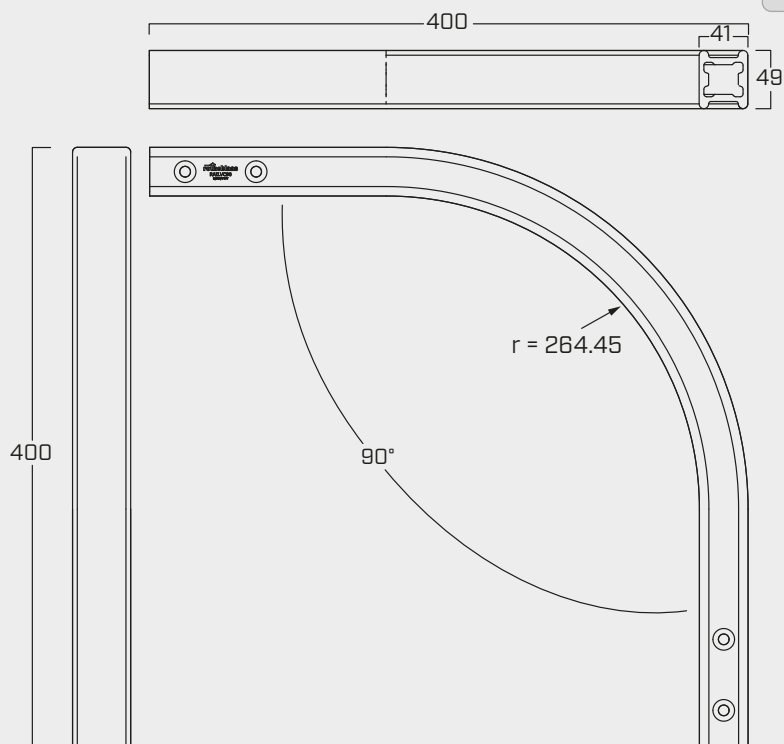
## RAILC150

AL  
EN-AW  
6063  
T6



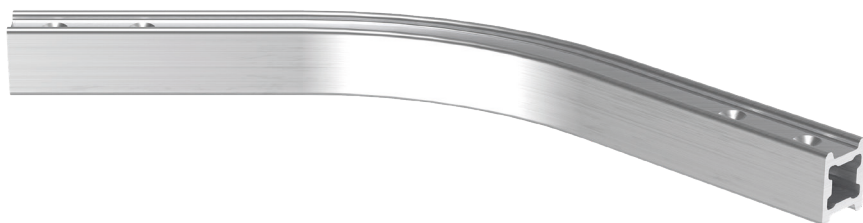
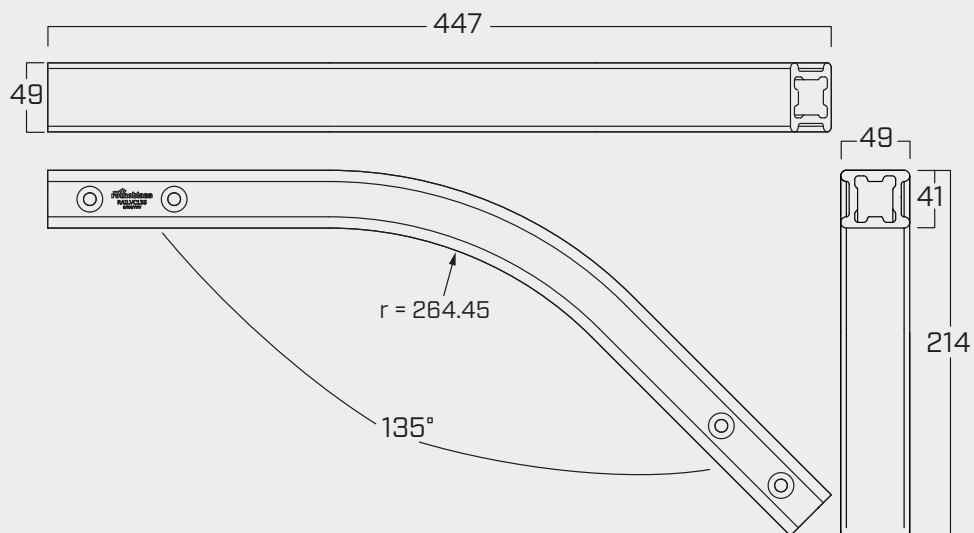
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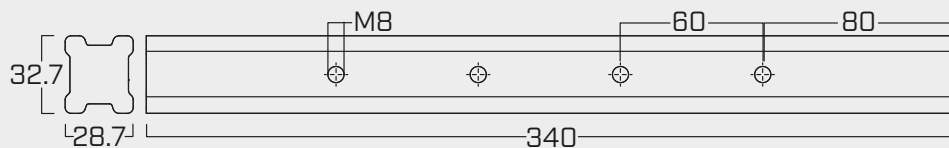
AL  
EN-AW  
6063  
T6



 **RAILVC135**

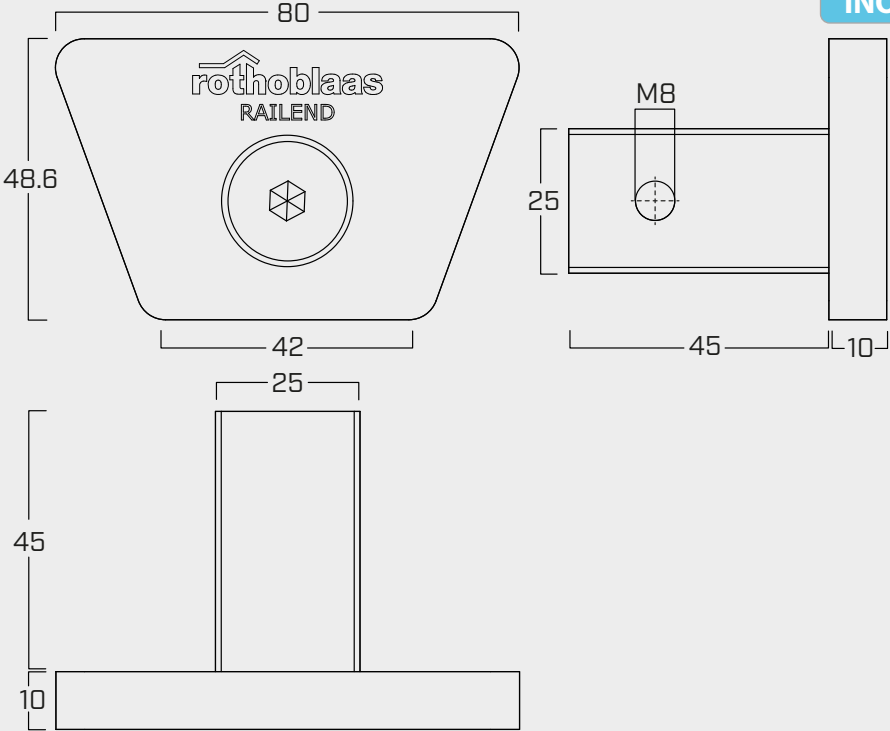
AL  
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T6





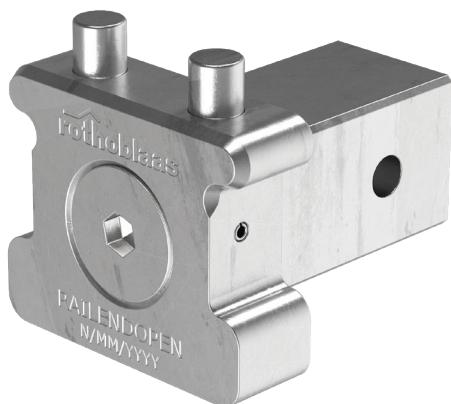
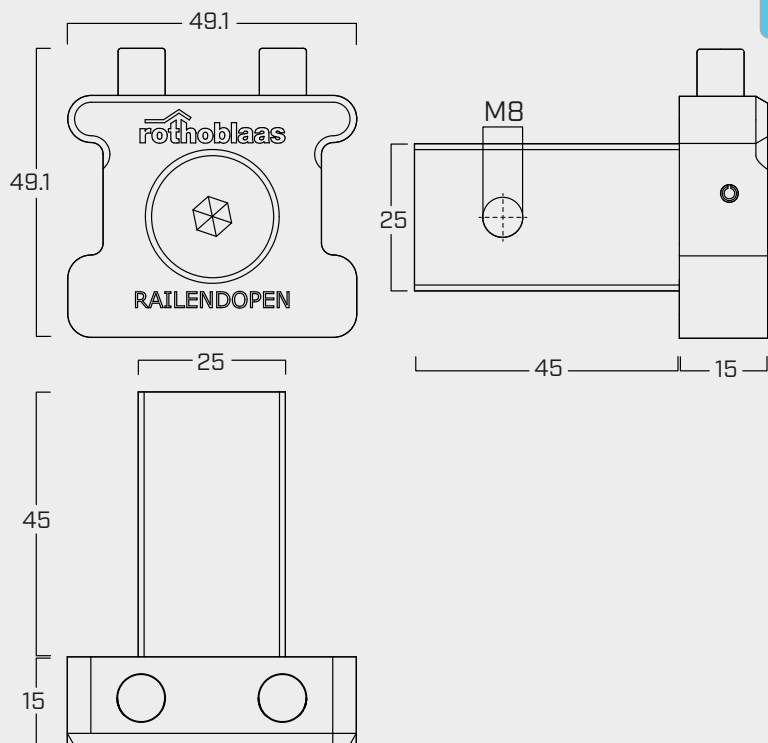
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1.4301  
AISI304  
**INOX**

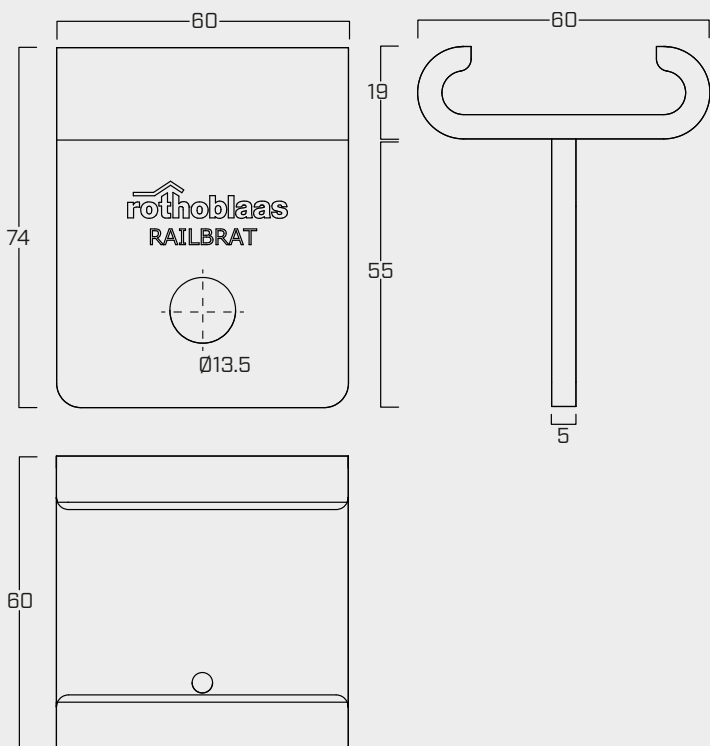


**RAILENDOPEN**

1.4301  
AISI304  
**INOX**



## RAILBRAT



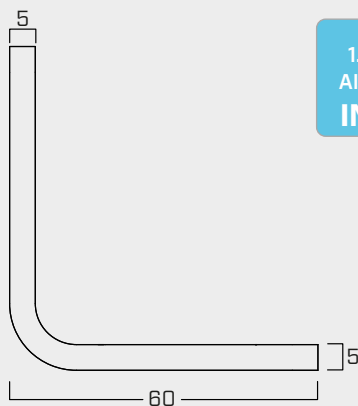
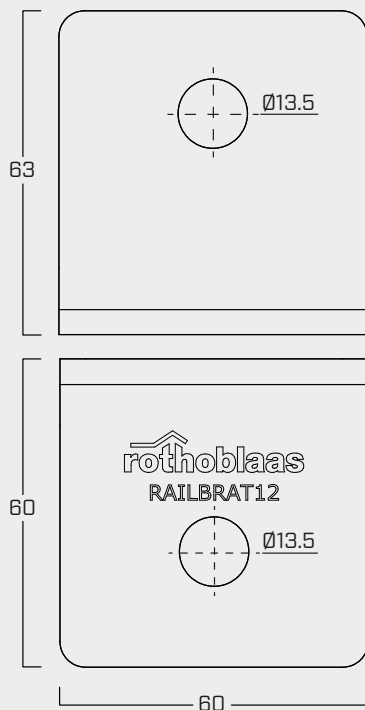
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INOX



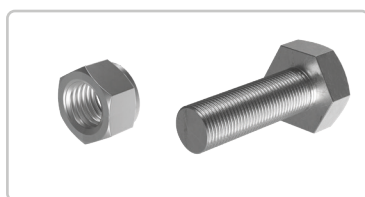


## H-RAIL COMPONENTS

### RAILBRAT12



1.4301  
AISI304  
**INOX**

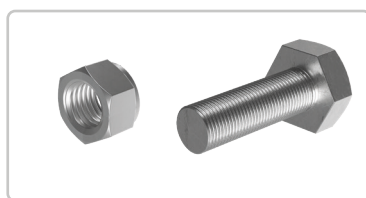
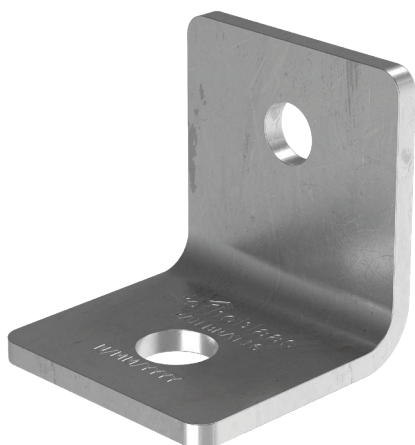
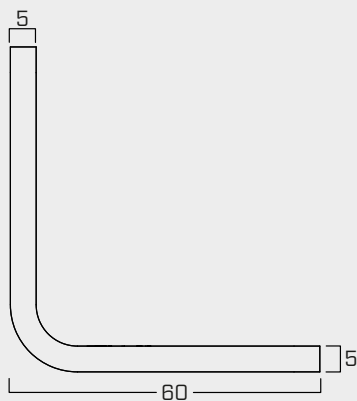
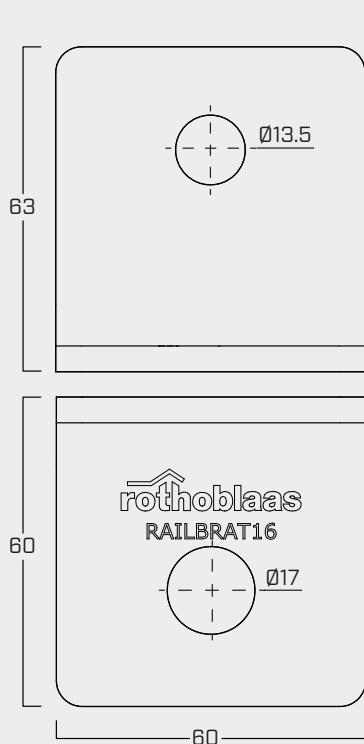


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**RAILBRAT16**

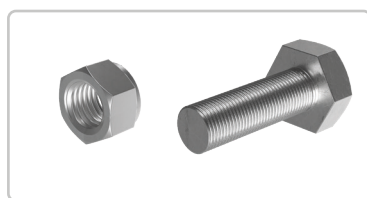
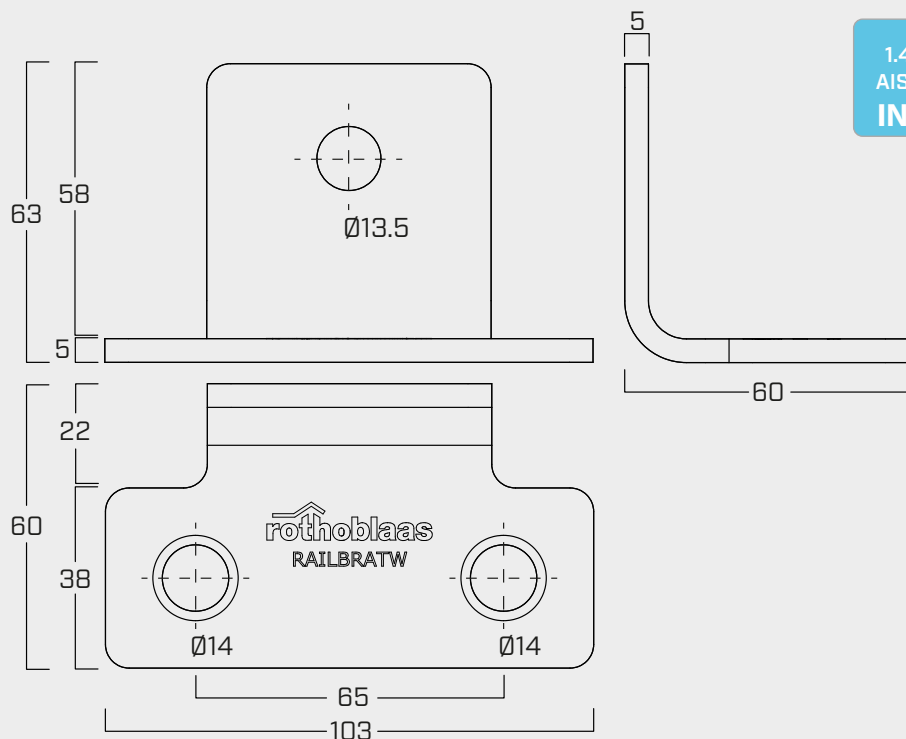


1.4301  
AISI304  
**INOX**



**INCLUDED IN THE PACKAGE**

**RAILBRATW**

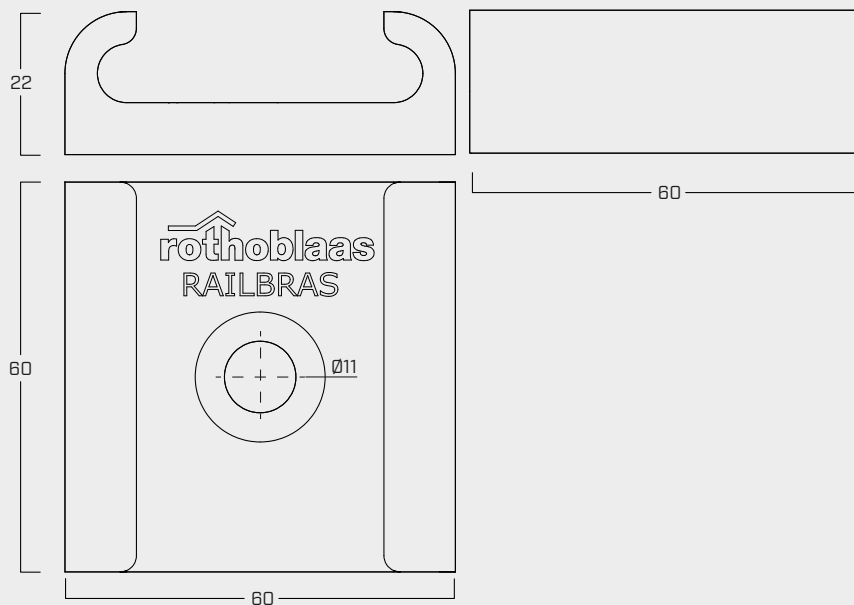


INCLUDED IN THE PACKAGE

## RAILBRAS



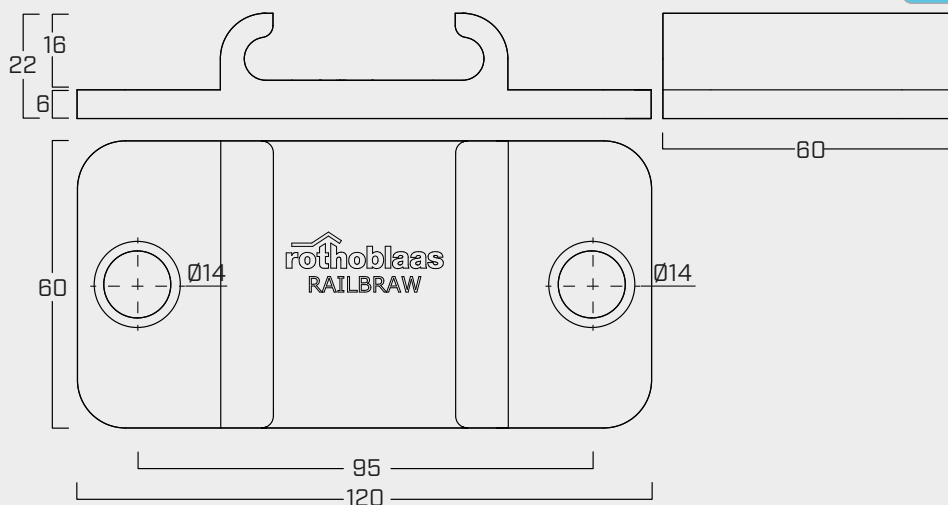
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AISI304  
INOX



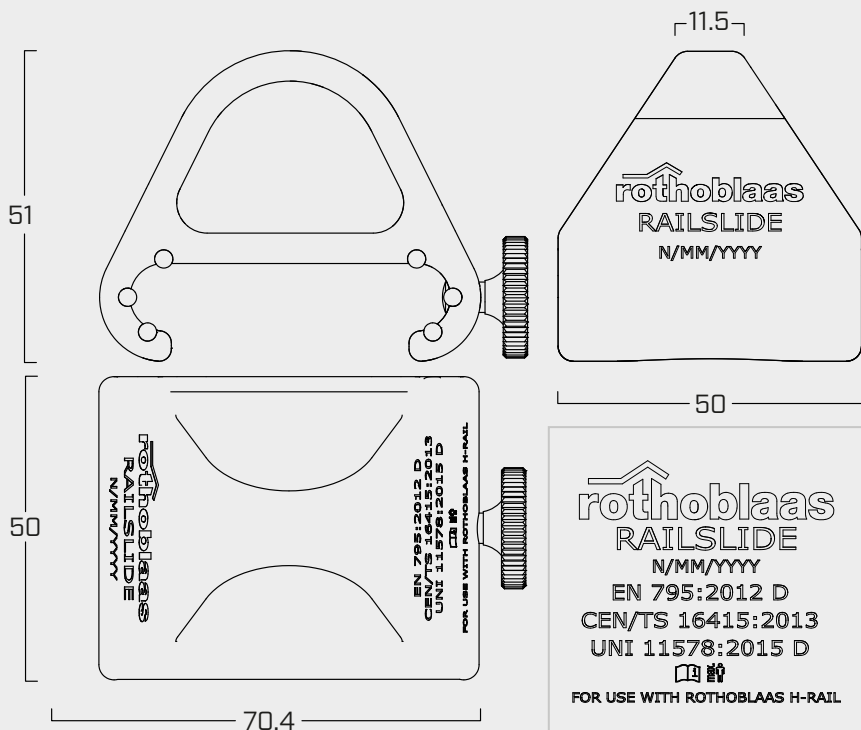
**RAILBRAW**



1.4301  
AISI304  
**INOX**



## RAILSLIDE



1.4301  
AISI304  
INOX

PA,6

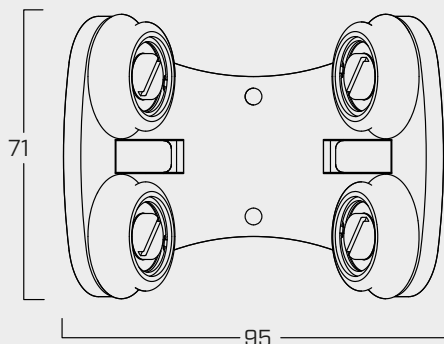
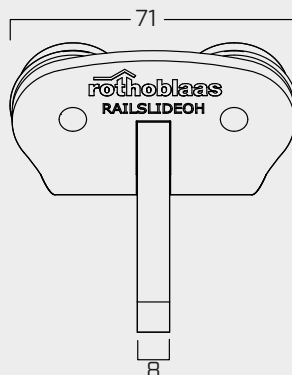
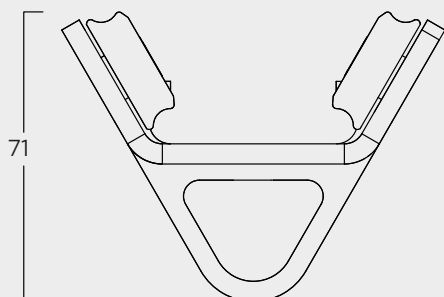


INCLUDED IN THE PACKAGE  
RAILLOCKSCREW

## RAILSLIDEOH



1.4301  
AISI304  
INOX



rothoblaas  
RAILSLIDEOH  
N/MM/YYYY

EN 795:2012 D  
CEN/TS 16415:2013  
UNI 11578:2015 D  
FOR USE WITH ROTHOBLAAS H-RAIL

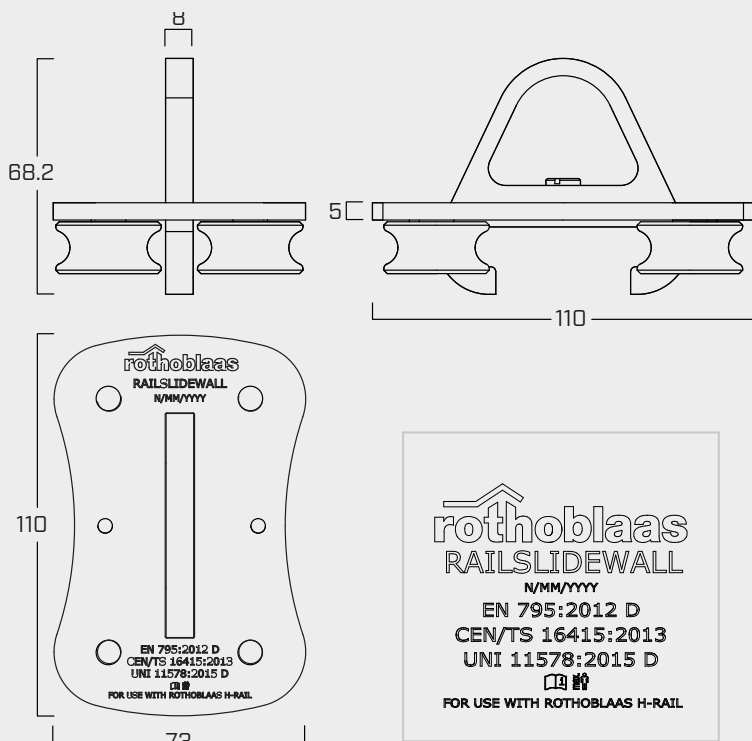


INCLUDED IN THE PACKAGE

## RAILSLIDEWALL



1.4301  
AISI304  
**INOX**



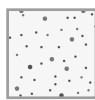
**INCLUDED IN THE PACKAGE**



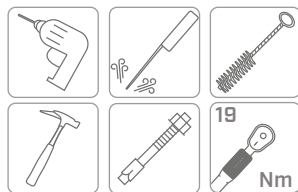
# **SUBSTRUCTURE INSTALLATION**

# CONCRETE INSTALLATION

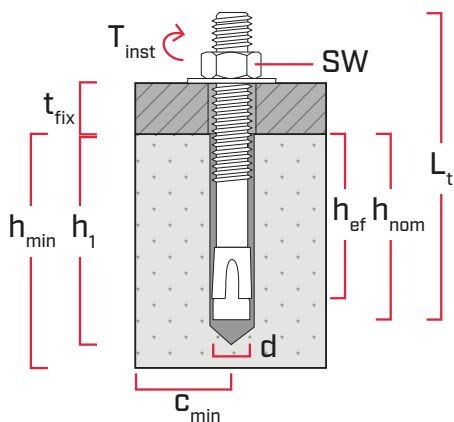
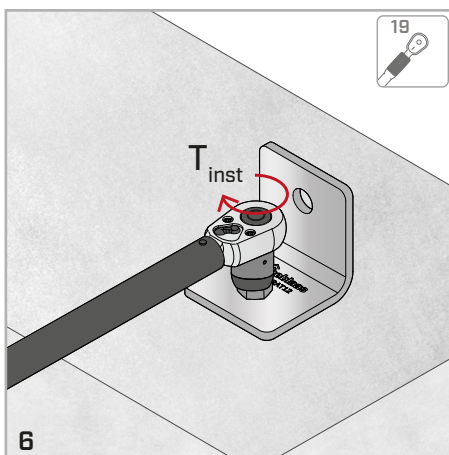
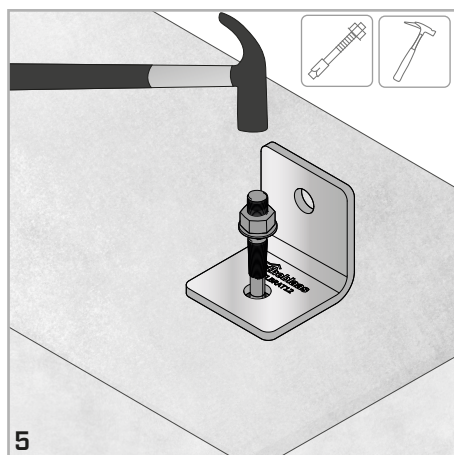
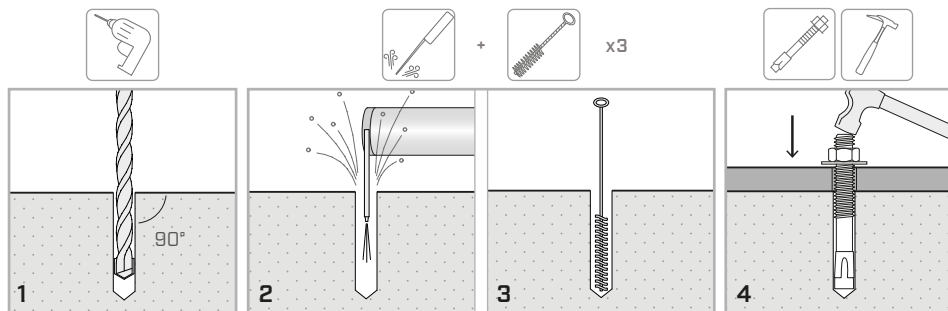
## RAILBRAT12



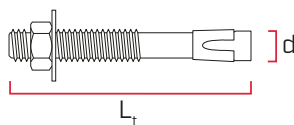
C20/25



AB1



AB1 12 x 100 mm



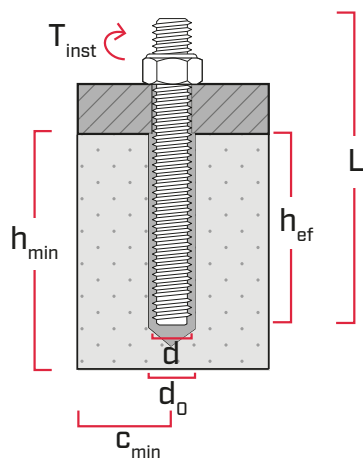
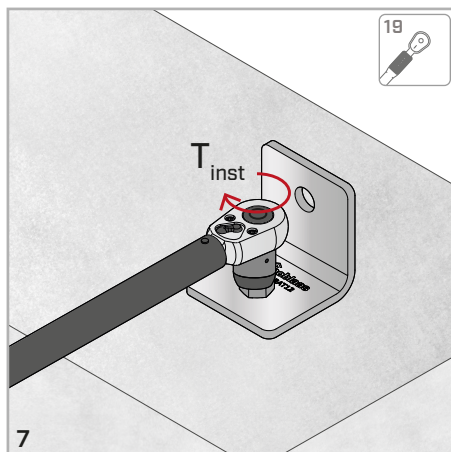
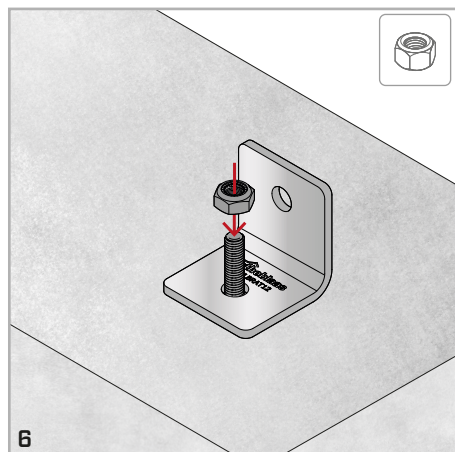
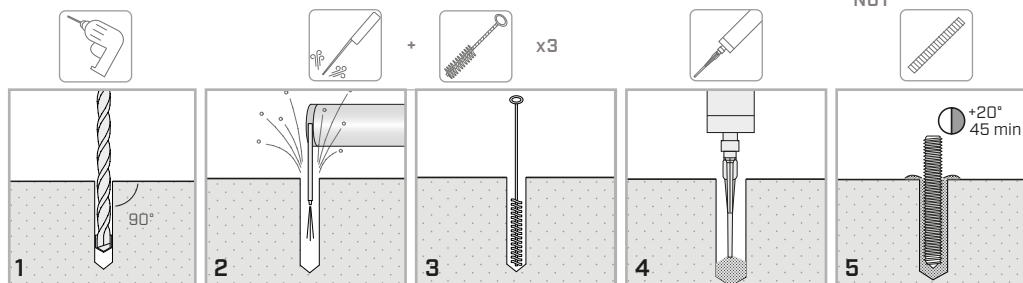
|           |        |        |            |        |        |
|-----------|--------|--------|------------|--------|--------|
| $d$       | $=$    | 12 mm  | $T_{inst}$ | $=$    | 4 Nm   |
| $L_t$     | $=$    | 100 mm | $h_{ef}$   | $=$    | 70 mm  |
| $h_1$     | $\geq$ | 85 mm  | $SW$       | $=$    | 19 mm  |
| $h_{nom}$ | $\geq$ | 80 mm  | $T_{inst}$ | $=$    | 60 Nm  |
| $t_{fix}$ | $=$    | 4 mm   | $h_{min}$  | $\geq$ | 140 mm |
| $c_{min}$ | $\geq$ | 70 mm  |            |        |        |

# CONCRETE INSTALLATION

## RAILBRAT12



SELF-LOCKING  
NUT



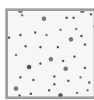
M12 - 5.8 min



|           |        |       |            |     |                                   |
|-----------|--------|-------|------------|-----|-----------------------------------|
| $d$       | $=$    | 12 mm | $h_{ef}$   | $=$ | 70 mm                             |
| $d_0$     | $=$    | 14 mm | $T_{inst}$ | $=$ | 40 Nm                             |
| $L$       | $=$    | mm    | $h_{min}$  | $=$ | $h_{ef} + 30 \geq 100 \text{ mm}$ |
| $c_{min}$ | $\geq$ | 60 mm |            |     |                                   |

# CONCRETE INSTALLATION

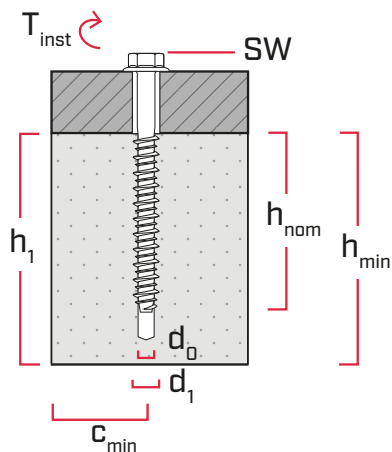
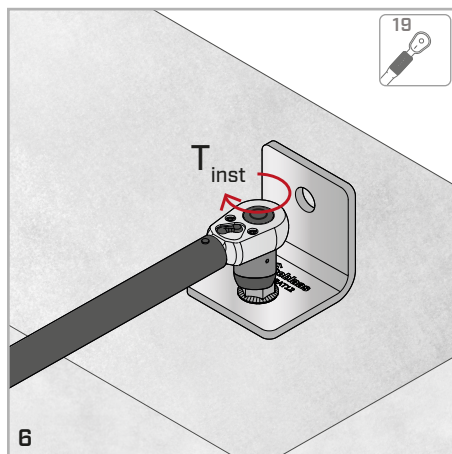
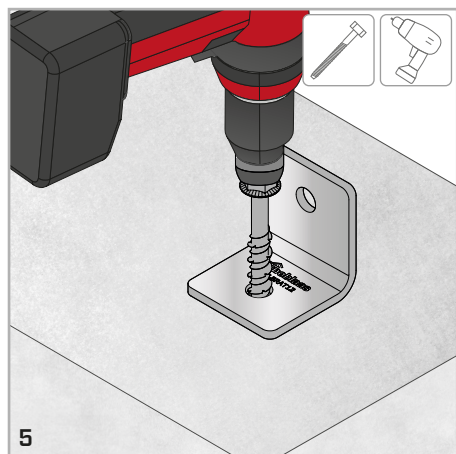
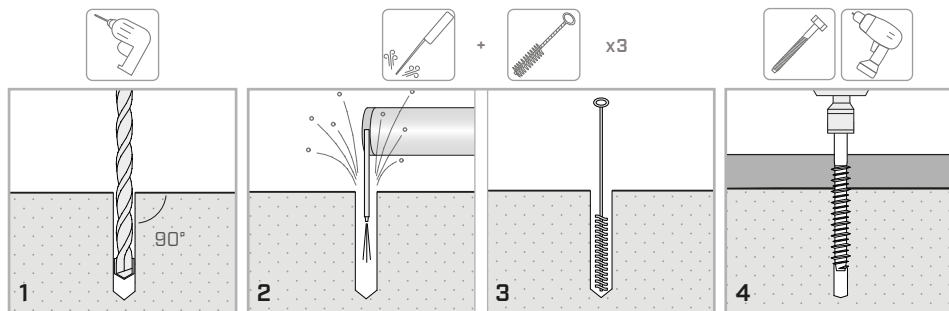
## RAILBRAT12



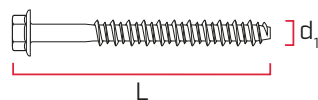
C20/25



SKR



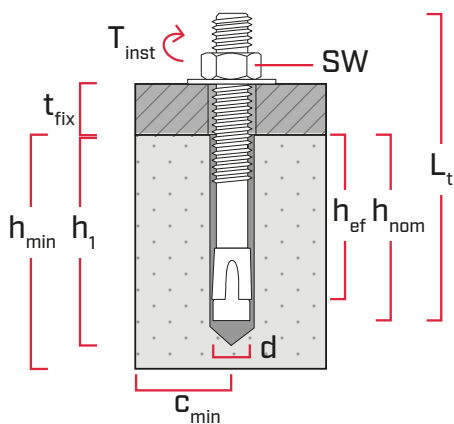
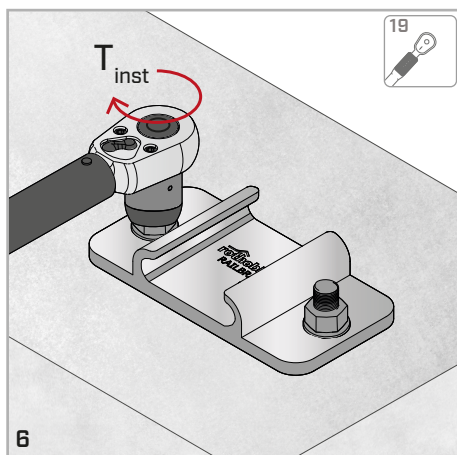
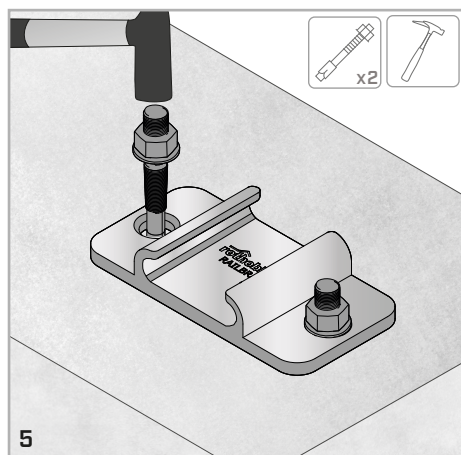
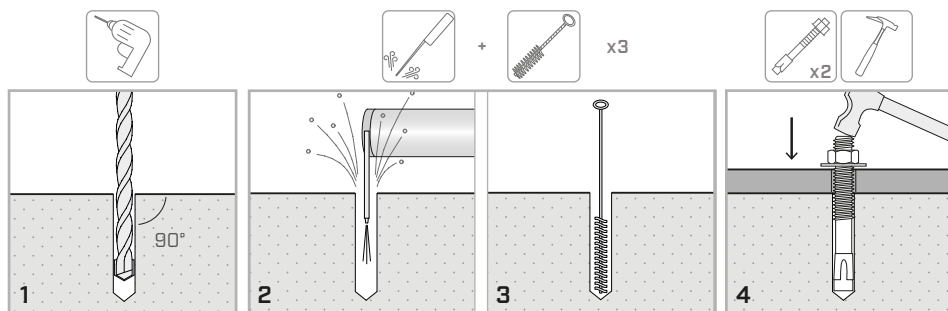
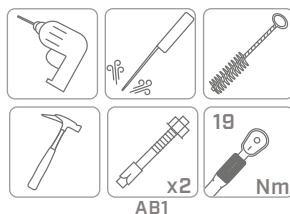
SKR CE 12 x 90 mm



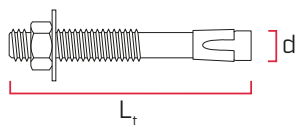
|           |   |        |            |   |       |
|-----------|---|--------|------------|---|-------|
| $d_1$     | = | 12 mm  | $d_0$      | = | 14 mm |
| $h_{min}$ | ≥ | 130 mm | SW         | = | 15 mm |
| L         | = | 90 mm  | $T_{inst}$ | = | 80 Nm |
| $c_{min}$ | ≥ | 96 mm  | $h_{nom}$  | ≥ | 80 mm |

# CONCRETE INSTALLATION

## RAILBRATW



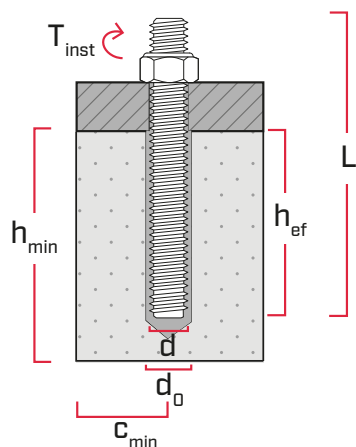
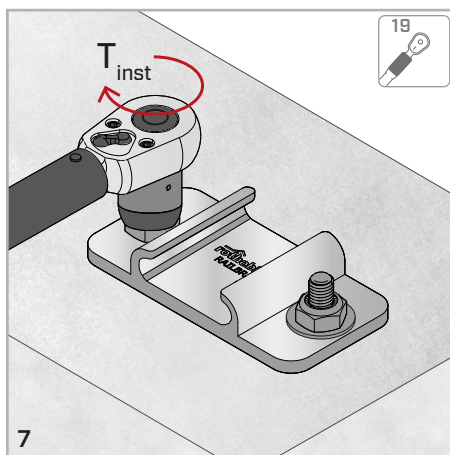
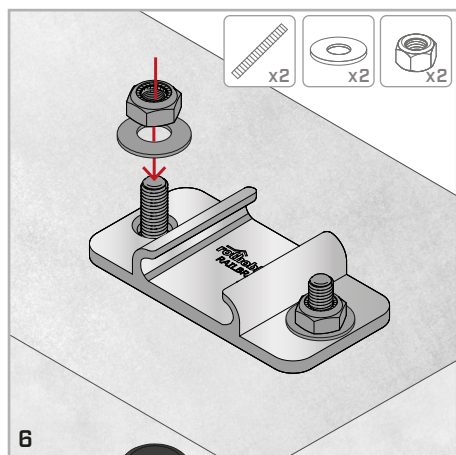
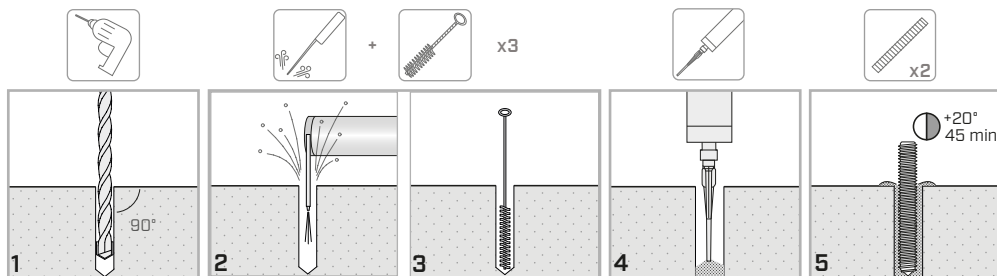
2 x AB1 12 x 100 mm



|                  |   |        |                   |   |        |
|------------------|---|--------|-------------------|---|--------|
| d                | = | 12 mm  | T <sub>inst</sub> | = | 4 mm   |
| L <sub>t</sub>   | = | 100 mm | h <sub>ef</sub>   | = | 70 mm  |
| h <sub>1</sub>   | ≥ | 85 mm  | SW                | = | 19 mm  |
| h <sub>nom</sub> | ≥ | 80 mm  | T <sub>inst</sub> | = | 60 Nm  |
| t <sub>fix</sub> | = | 4 mm   | h <sub>min</sub>  | ≥ | 140 mm |
| c <sub>min</sub> | ≥ | 70 mm  |                   |   |        |

# CONCRETE INSTALLATION

## RAILBRATW



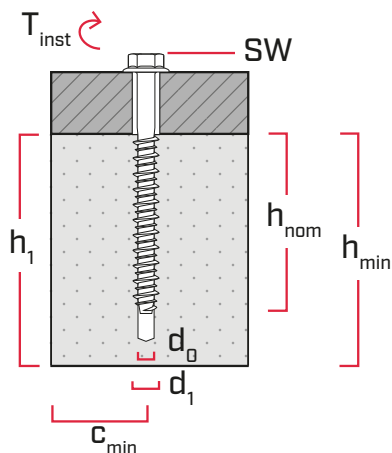
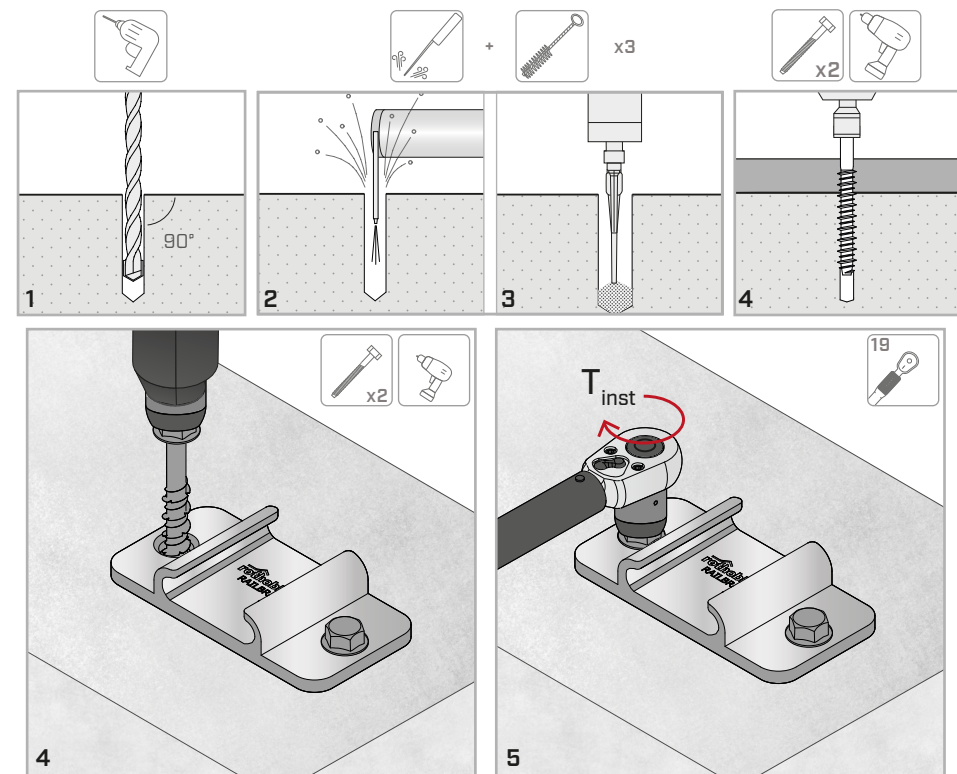
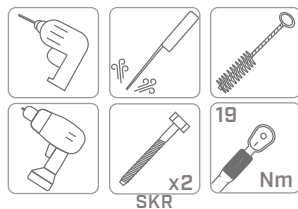
2 x M12 - 5.8 min



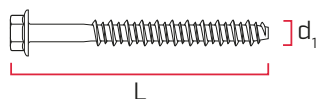
|           |   |       |            |   |                          |
|-----------|---|-------|------------|---|--------------------------|
| $d_1$     | = | 12 mm | $h_{ef}$   | = | 70 mm                    |
| $d_0$     | = | 14 mm | $T_{inst}$ | = | 40 Nm                    |
| $L$       | = | 90 mm | $h_{min}$  | = | $h_{ef} + 30 \geq 100mm$ |
| $c_{min}$ | ≥ | 96 mm |            |   |                          |

# CONCRETE INSTALLATION

## RAILBRATW



2 x SKR CE 12 x 90 mm



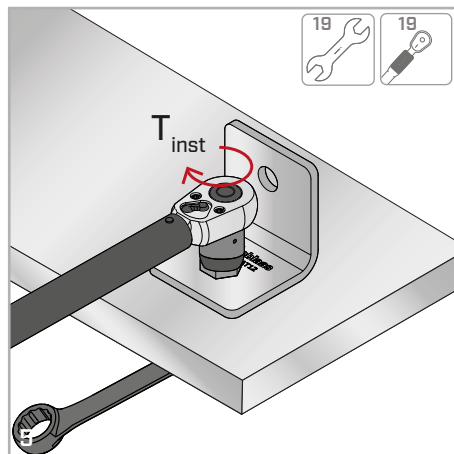
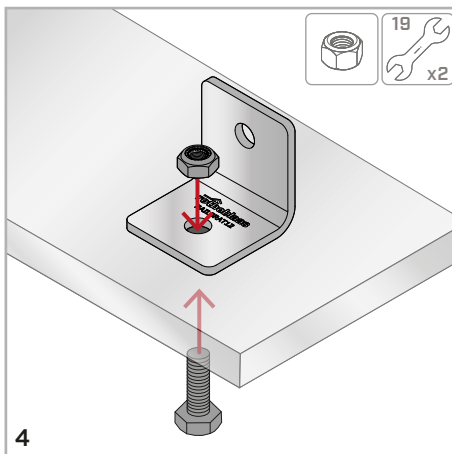
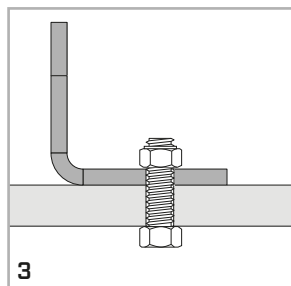
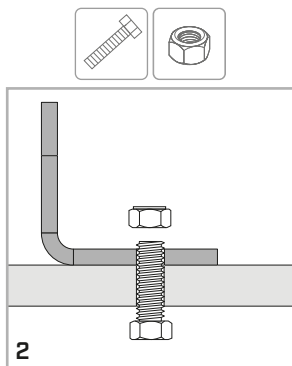
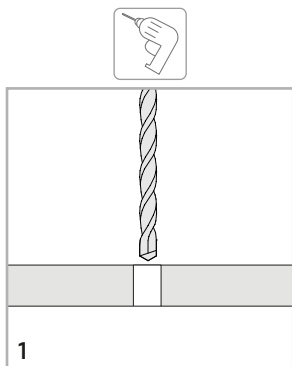
|           |   |        |            |   |       |
|-----------|---|--------|------------|---|-------|
| $d_1$     | = | 12 mm  | $d_0$      | = | 14 mm |
| $h_{min}$ | ≥ | 130 mm | SW         | = | 15 mm |
| $L$       | = | 90 mm  | $T_{inst}$ | = | 80 Nm |
| $c_{min}$ | ≥ | 96 mm  | $h_{nom}$  | ≥ | 80 mm |

# STEEL INSTALLATION

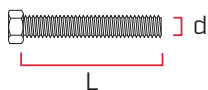
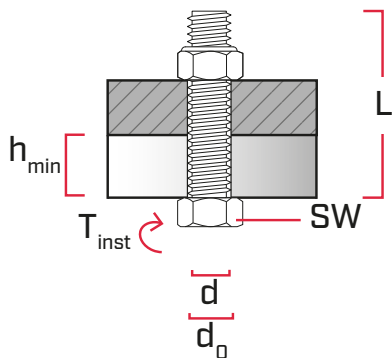
## RAILBRAT12



SELF-LOCKING  
NUT



M12 - A2-70



$d = 12 \text{ mm}$   
 $d_0 = 12,5 \text{ mm}$   
 $L \geq h_{\min} + 30 \text{ mm}$

$h_{\min} = 5 \text{ mm}$   
 $SW = 19 \text{ mm}$   
 A2-70  $\rightarrow T_{\text{inst}} = 30 \text{ Nm}$

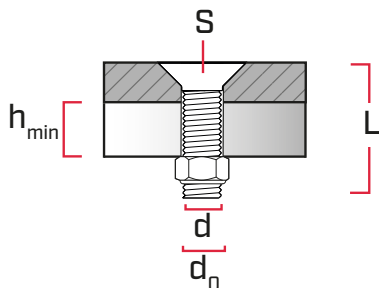
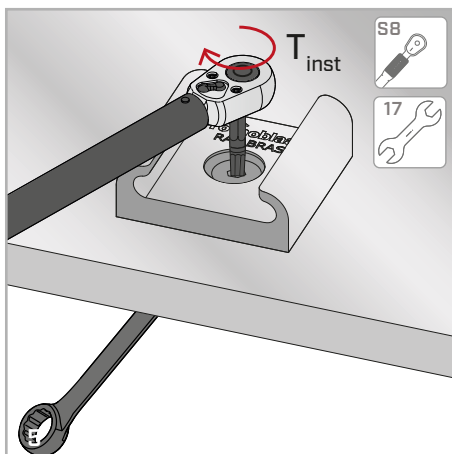
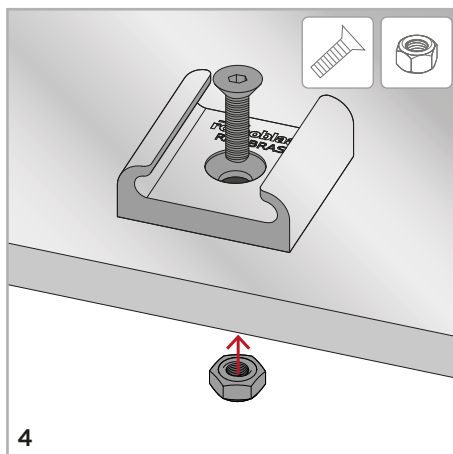
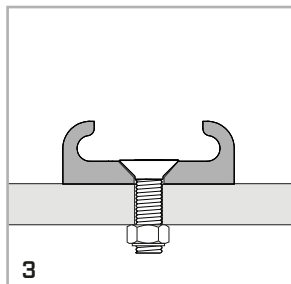
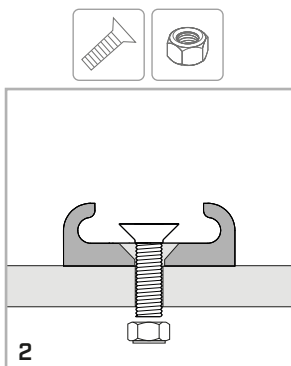
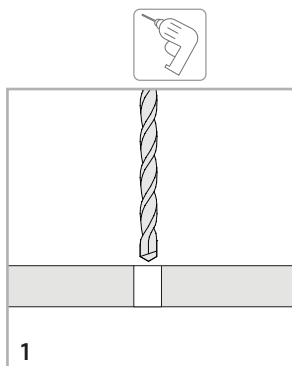


# STEEL INSTALLATION

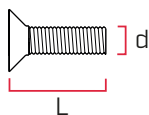
## RAILBRAS



DIN7991 SELF-LOCKING NUT



DIN7991 M10 - A2-70



$d = 10 \text{ mm}$   
 $d_0 = 10,5 \text{ mm}$   
 $L \geq h_{min} + 30 \text{ mm}$

$h_{min} = 5 \text{ mm}$   
 $S = 8 \text{ mm}$   
 $A2-70 \rightarrow T_{inst} = 15 \text{ Nm}$

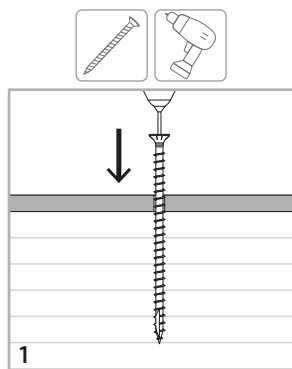
## RAILBRATW - RAILBRAW



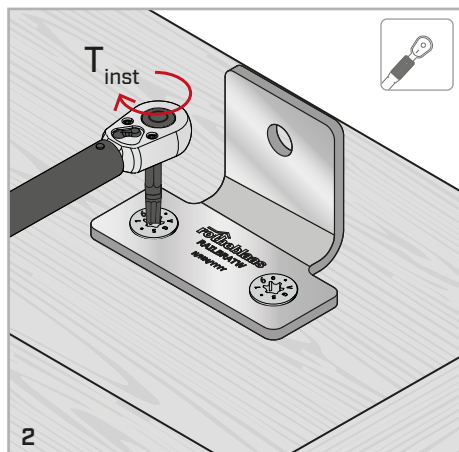
GL24H



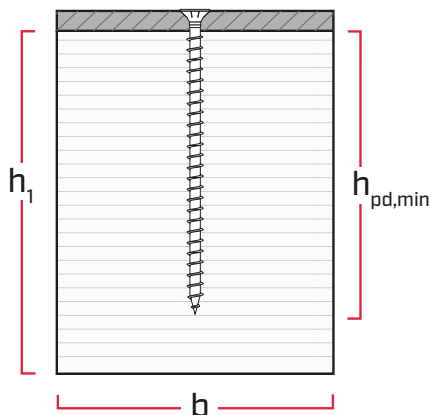
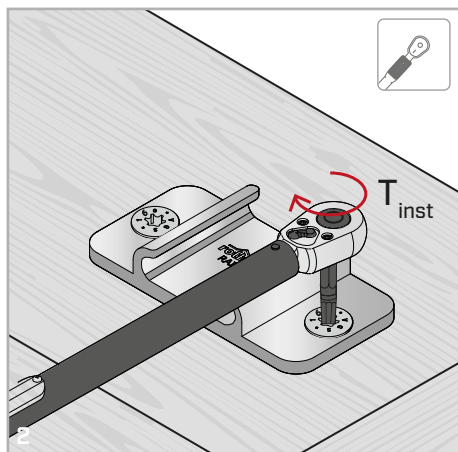
VGS11150  
VGSEVO11150



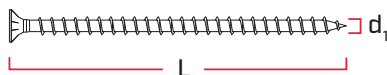
RAILBRATW



RAILBRAW



2 x VGS (EVO) 11 x 150 mm



|       |   |              |              |   |        |
|-------|---|--------------|--------------|---|--------|
| $d_1$ | = | 11 mm        | $b$          | ≥ | 110 mm |
| $L$   | = | 150 mm       | $h_{pd,min}$ | ≥ | 145 mm |
| $h_1$ | ≥ | $h_{pd,min}$ | $T_{inst}$   | = | 30 Nm  |

# WOOD INSTALLATION

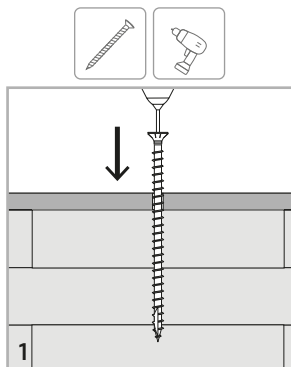
## RAILBRATW - RAILBRAW



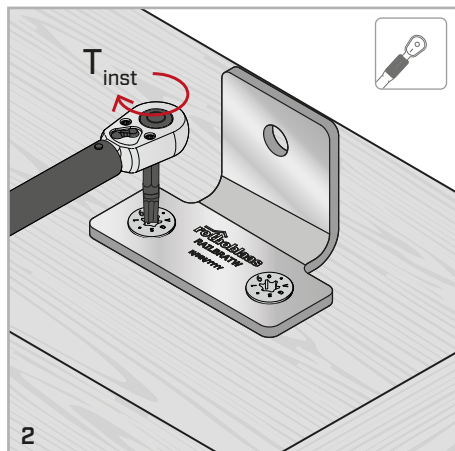
CLT



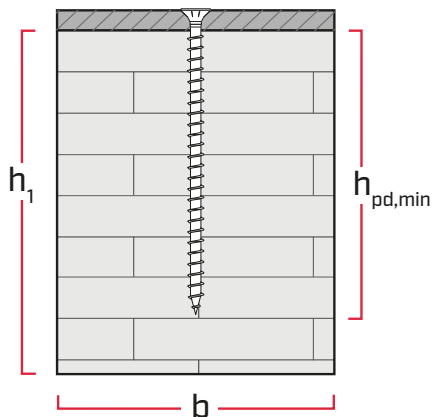
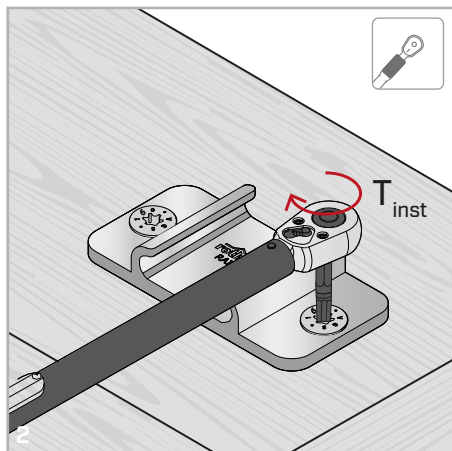
VGS13150  
VGSEVO13150



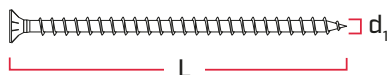
RAILBRATW



RAILBRAW



2 x VGS (EVO) 13 x 150 mm



|       |   |              |              |   |        |
|-------|---|--------------|--------------|---|--------|
| $d_1$ | = | 13 mm        | $b$          | ≥ | 130 mm |
| $L$   | = | 150 mm       | $h_{pd,min}$ | ≥ | 145 mm |
| $h_1$ | ≥ | $h_{pd,min}$ | $T_{inst}$   | = | 50 Nm  |

## TOWER INSTALLATION

### RAILBRAT16



TOWER  
TOWER22  
TOWERA2



TOWERXL



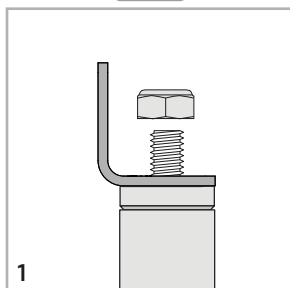
M16  
SELF-LOCKING  
NUT



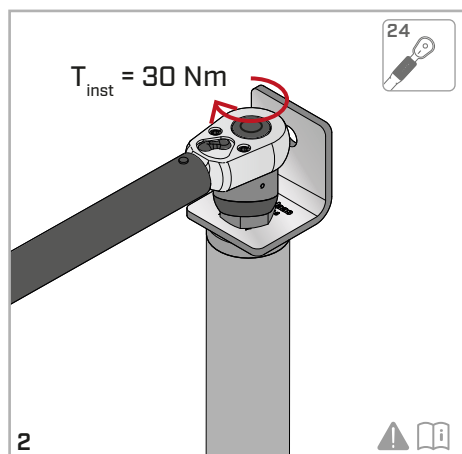
24  
Nm



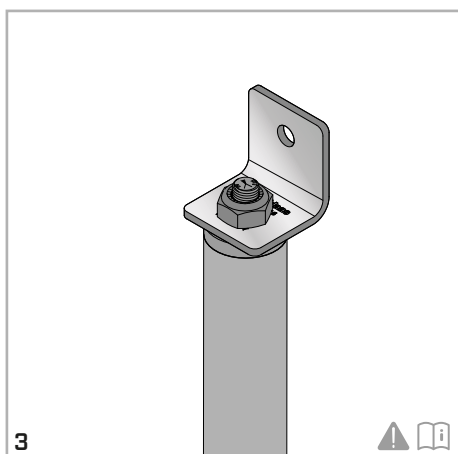
24



1



2



3

## TOWER SUBSTRUCTURES



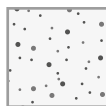
S235



GL24H



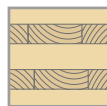
CLT



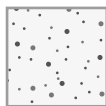
C20/25



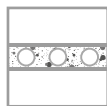
TOWER  
TOWER22  
TOWERA2



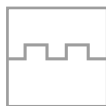
CLT



C20/25



C45/55



Fe: min 0,75 mm

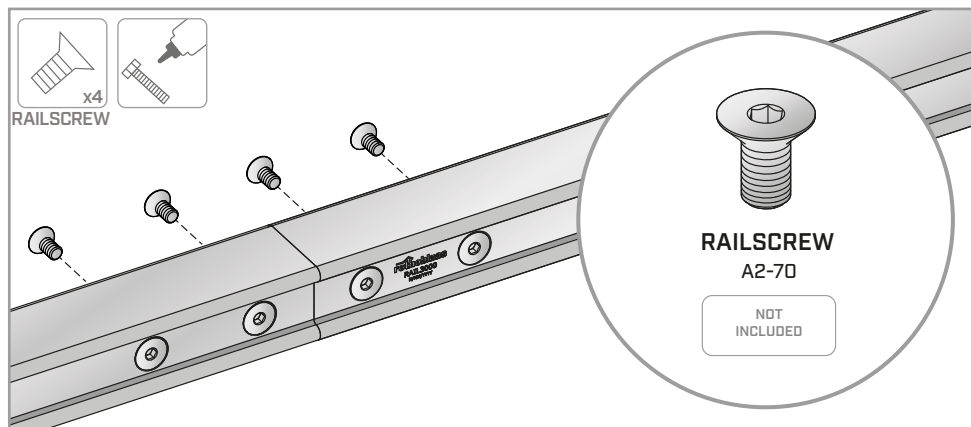
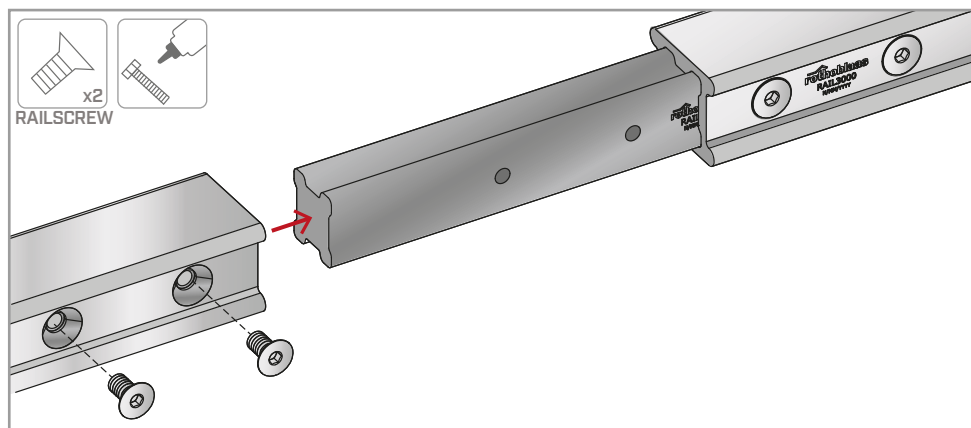
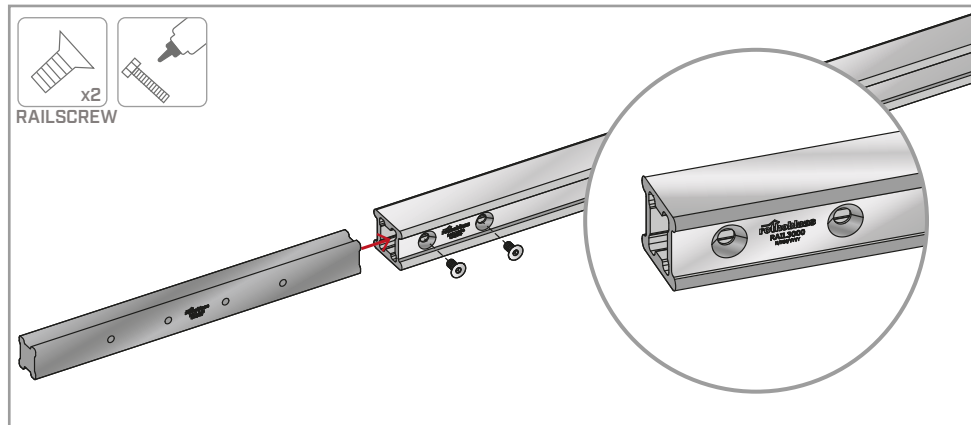


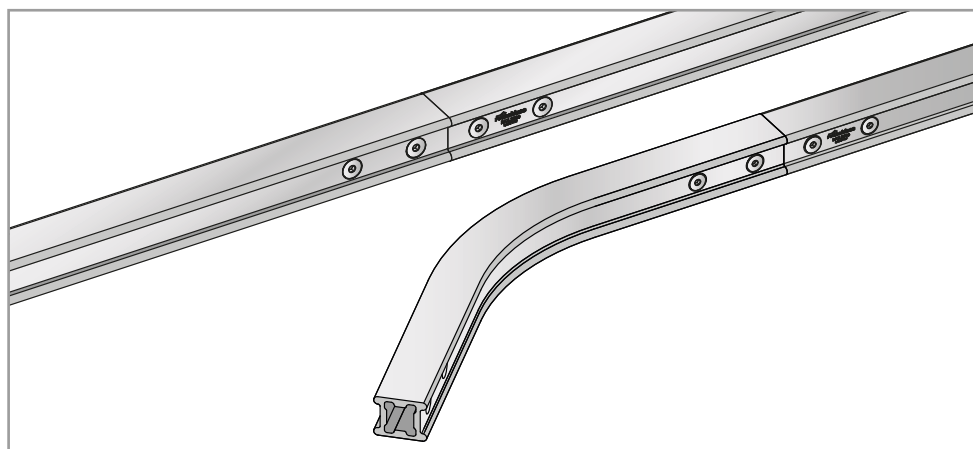
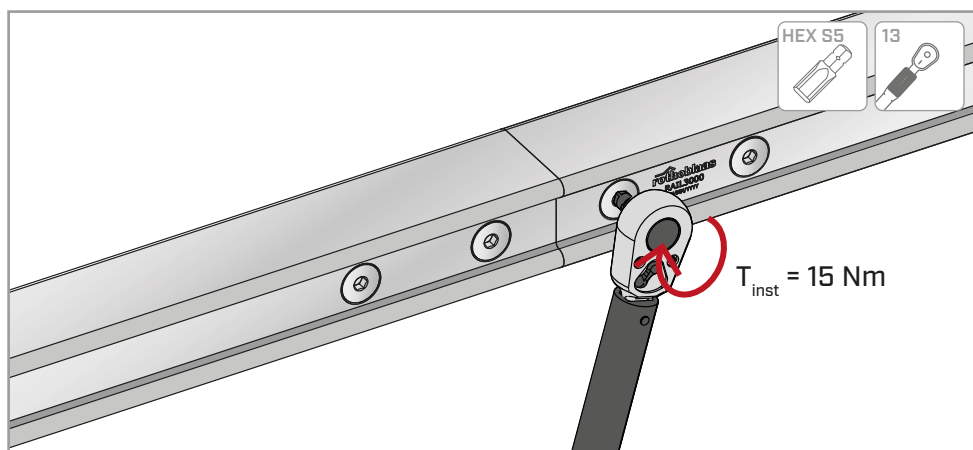
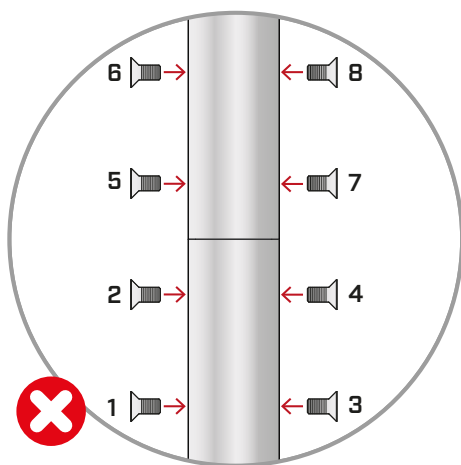
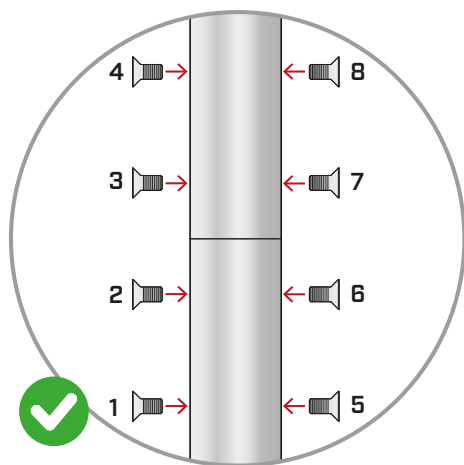
TOWERXL

# H-RAIL INSTALLATION

## RAIL INSTALLATION

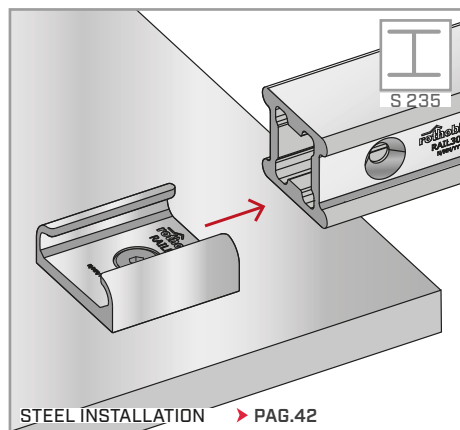
### RAIL3000 + RAILJUN



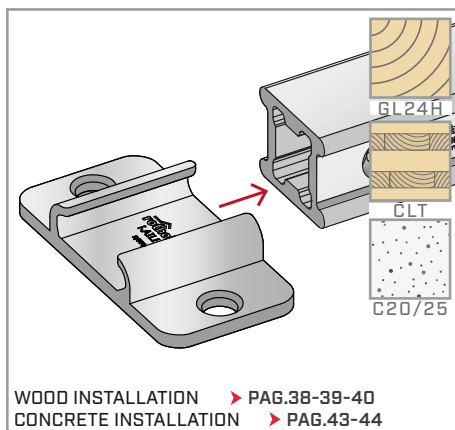


## SUPPORT INSTALLATION

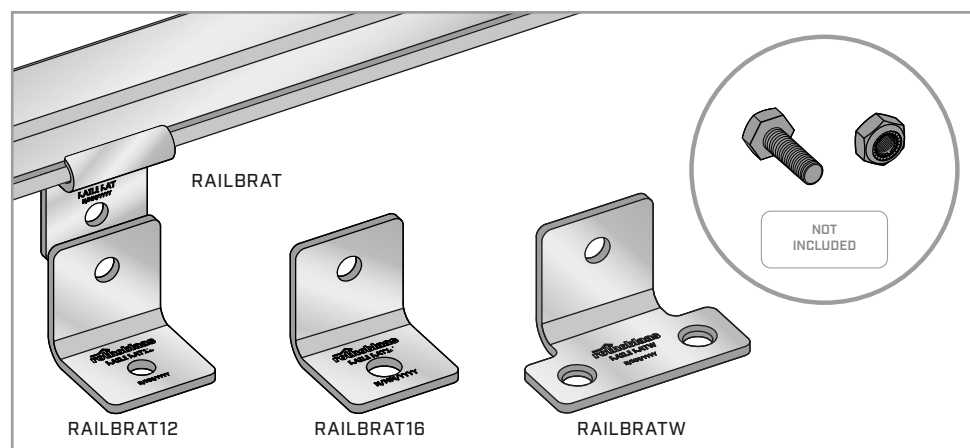
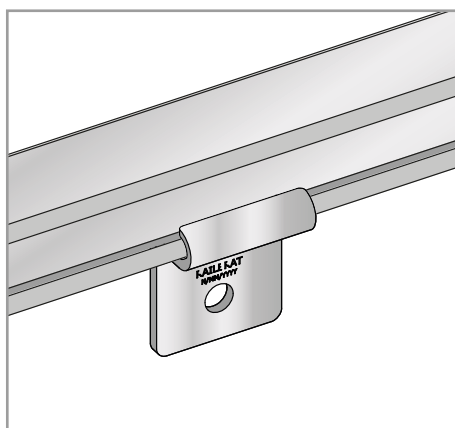
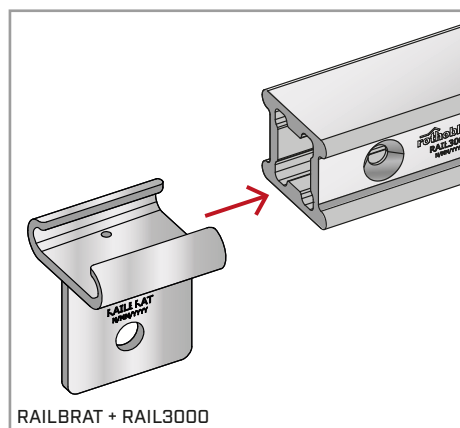
RAILBRAS + RAIL3000



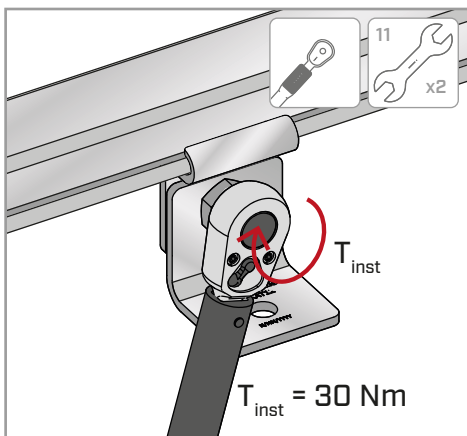
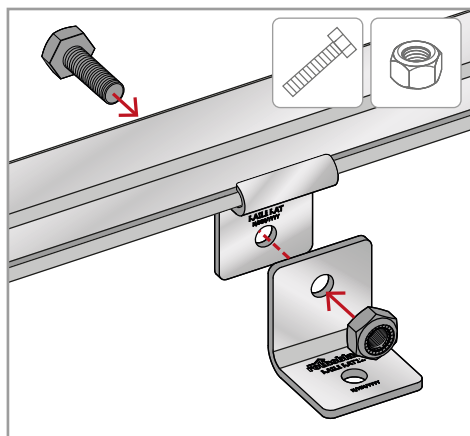
RAILBRAW + RAIL3000



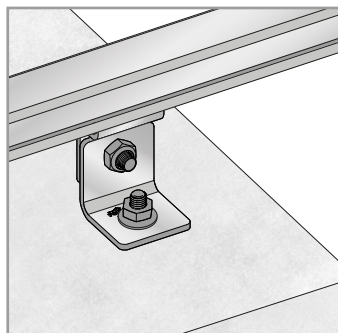
RAILBRAT



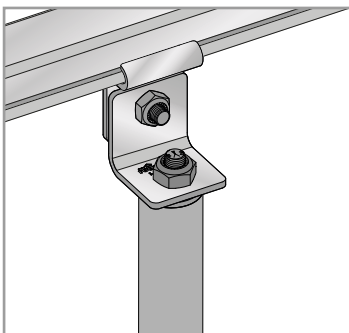




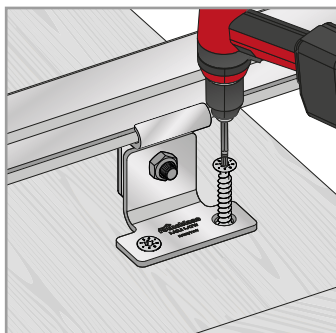
## SUBSTRUCTURE INSTALLATION



RAILBRAT + RAILBRAT12  
 CONCRETE INSTALLATION  
 ➤ PAG.35-36-37



RAILBRAT + RAILBRAT16  
 TOWER INSTALLATION  
 ➤ PAG.45



RAILBRAT + RAILBRATW  
 GL24H INSTALLATION  
 ➤ PAG.43

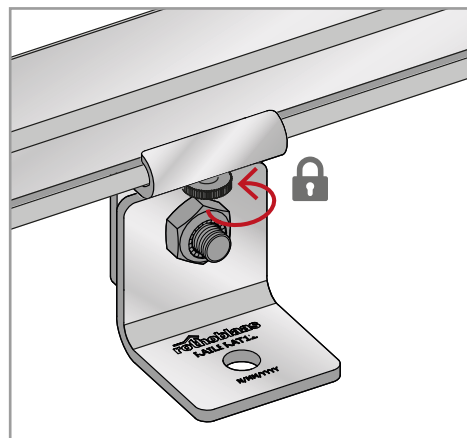
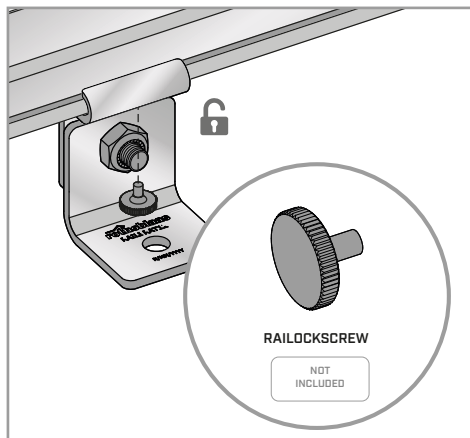


STEEL INSTALLATION  
 ➤ PAG.35-36-37



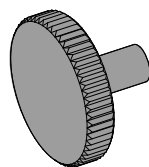
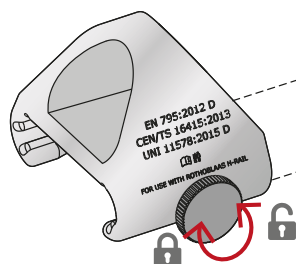
CLT INSTALLATION  
 ➤ PAG.44

## RAILOCKSCREW INSTALLATION



## SHUTTLE INSTALLATION

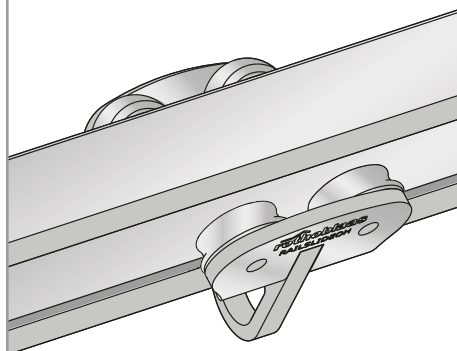
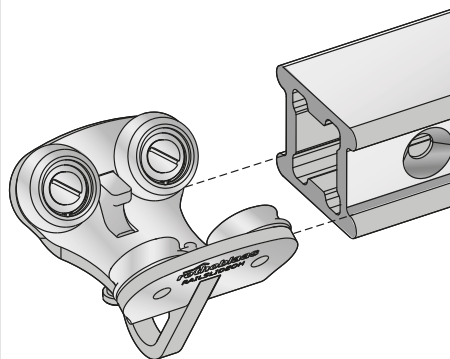
### RAIL + RAILSLIDE



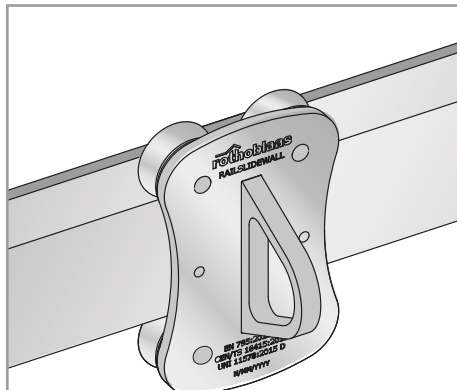
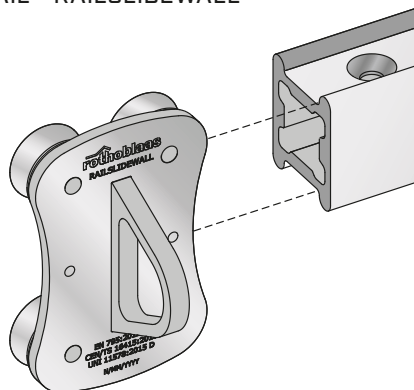
**RAILOCKSCREW**

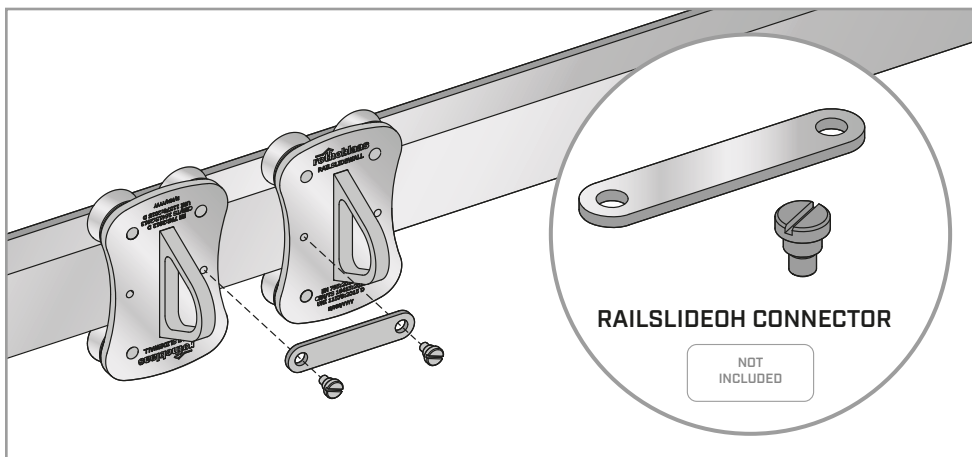
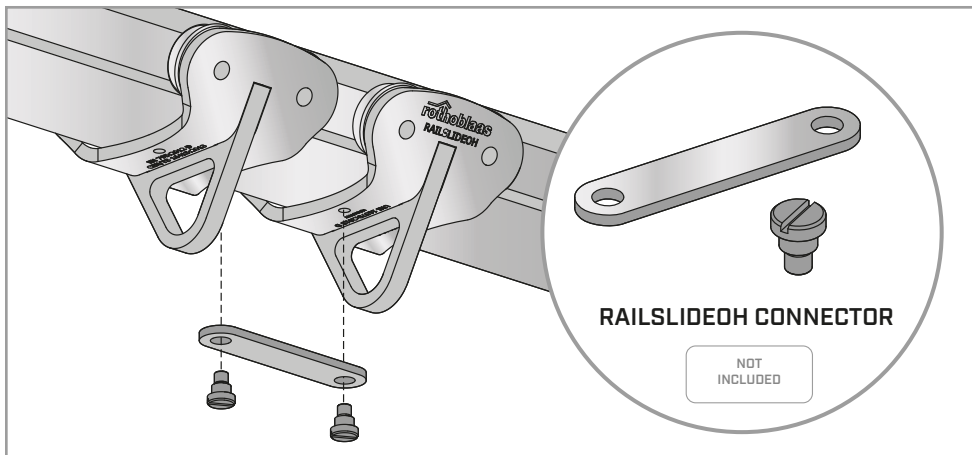
NOT  
INCLUDED

### RAIL + RAILSLIDEOH

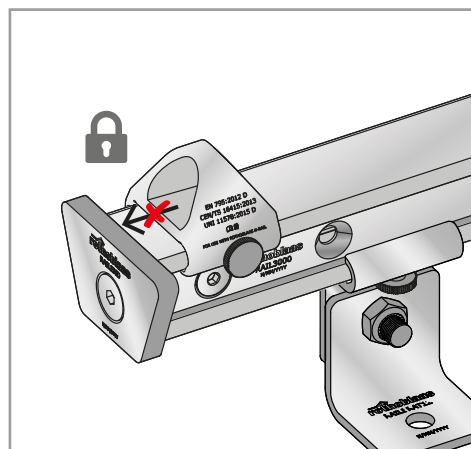
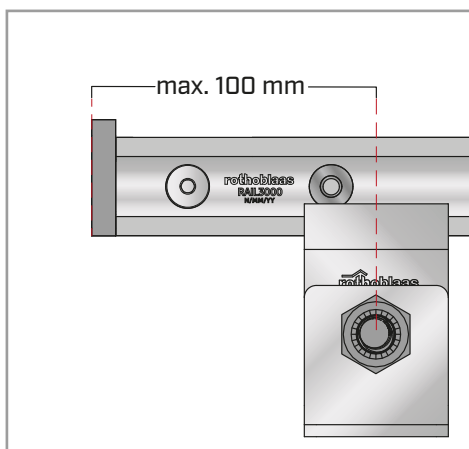
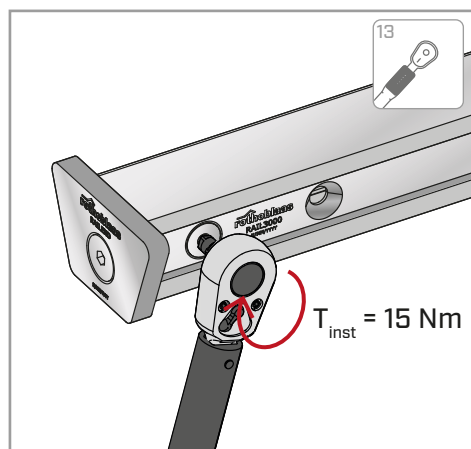
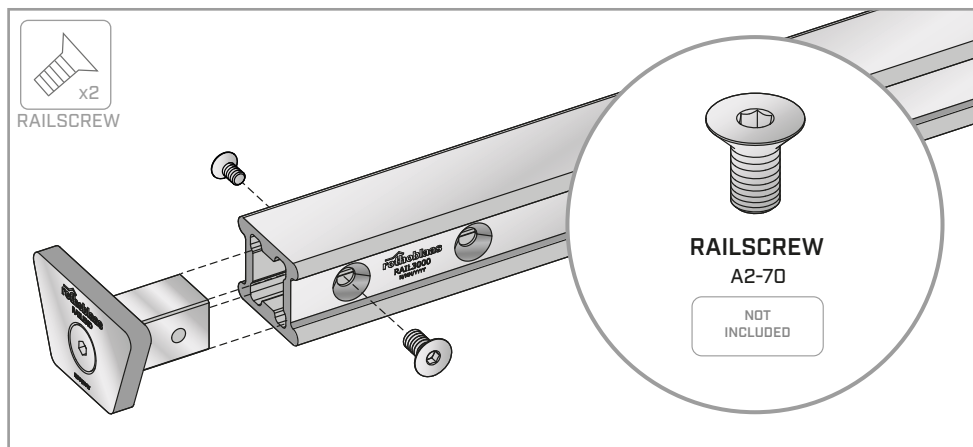


### RAIL + RAILSLIDEWALL

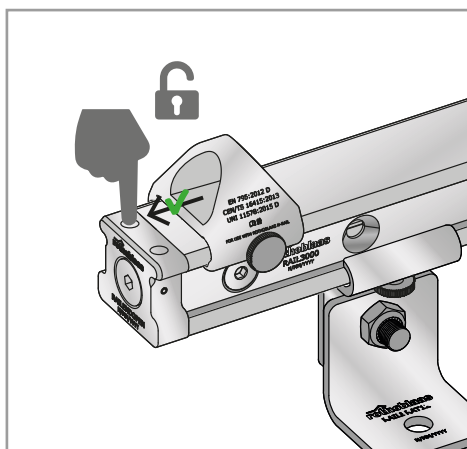
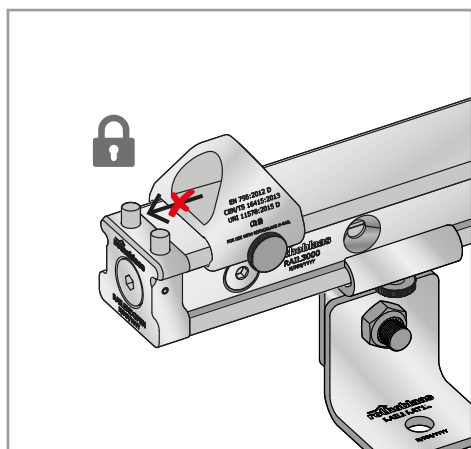
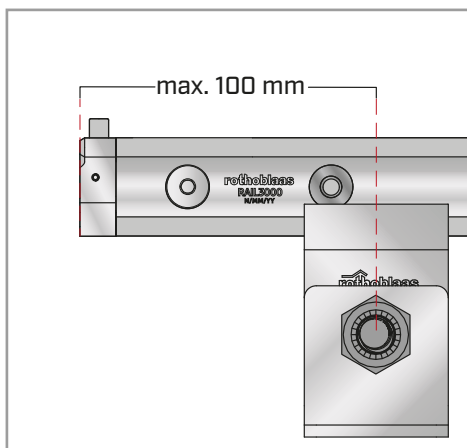
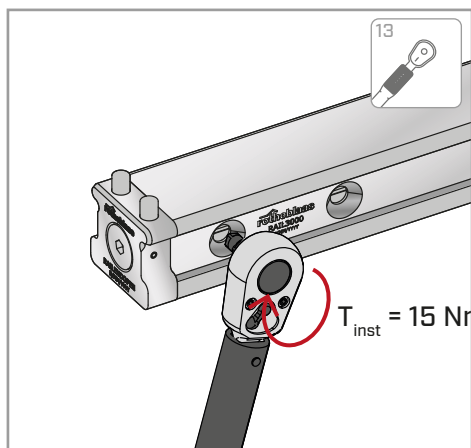
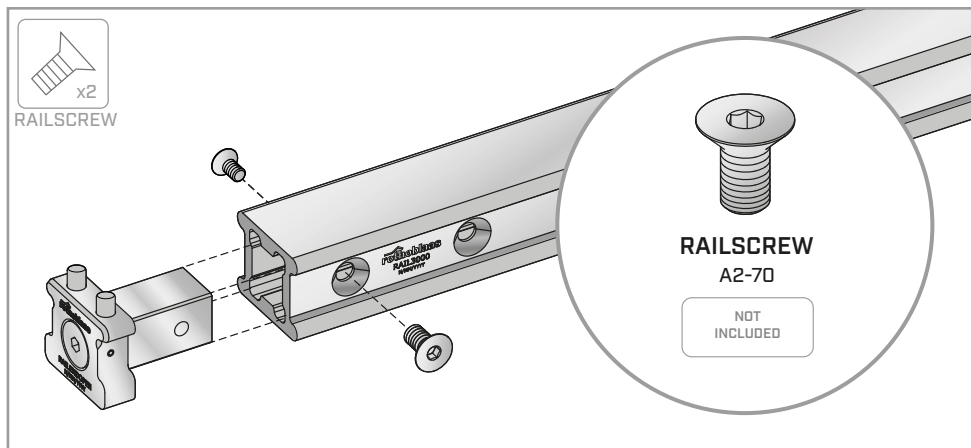




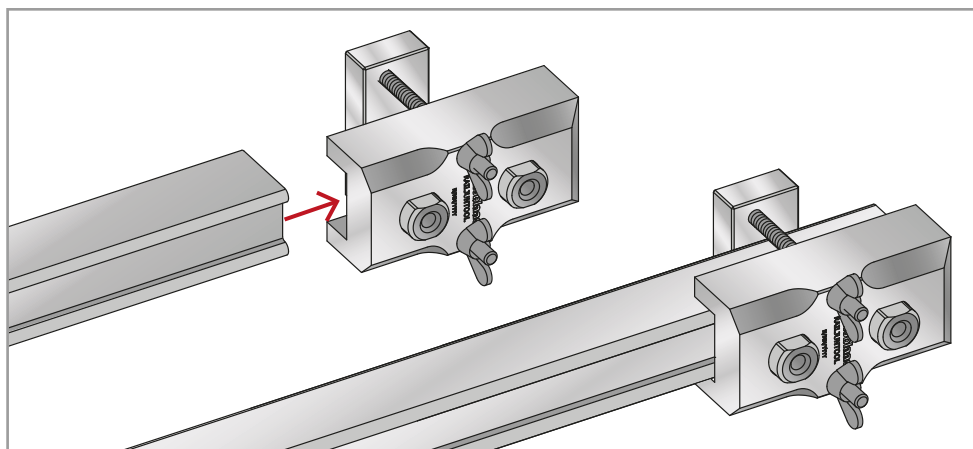
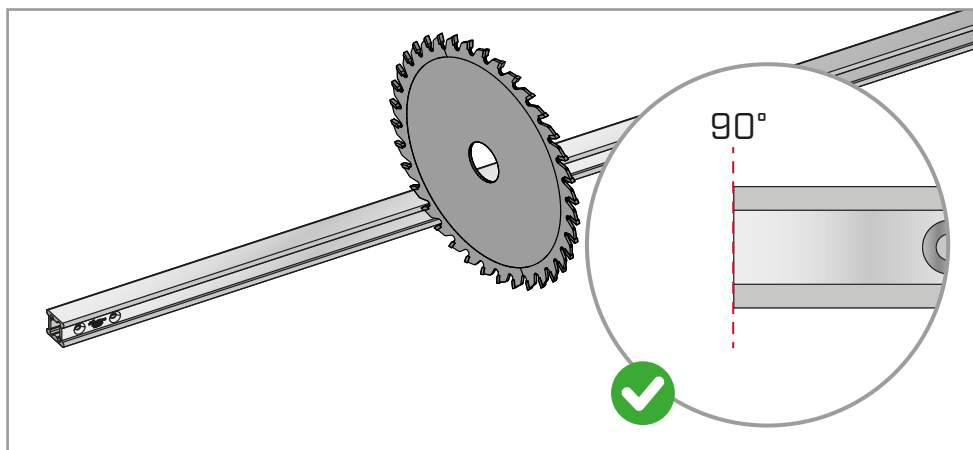
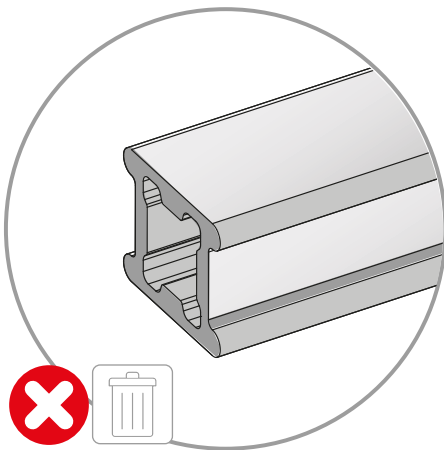
## RAILEND INSTALLATION

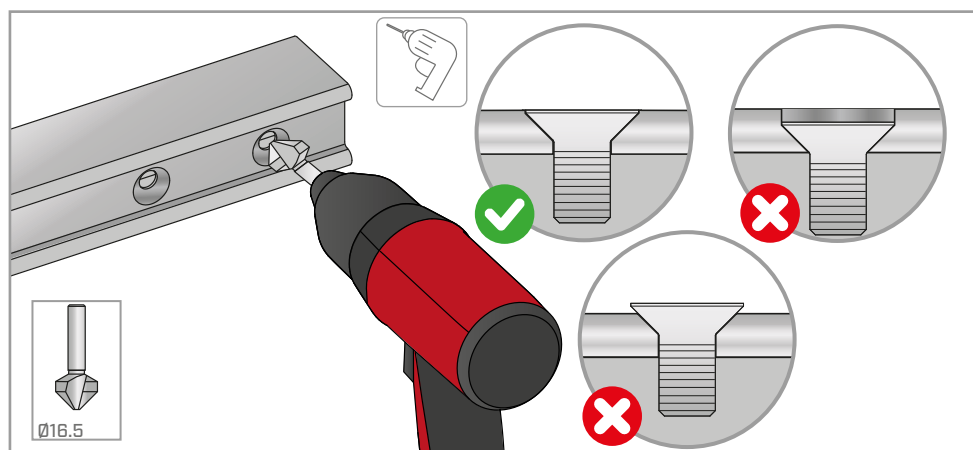
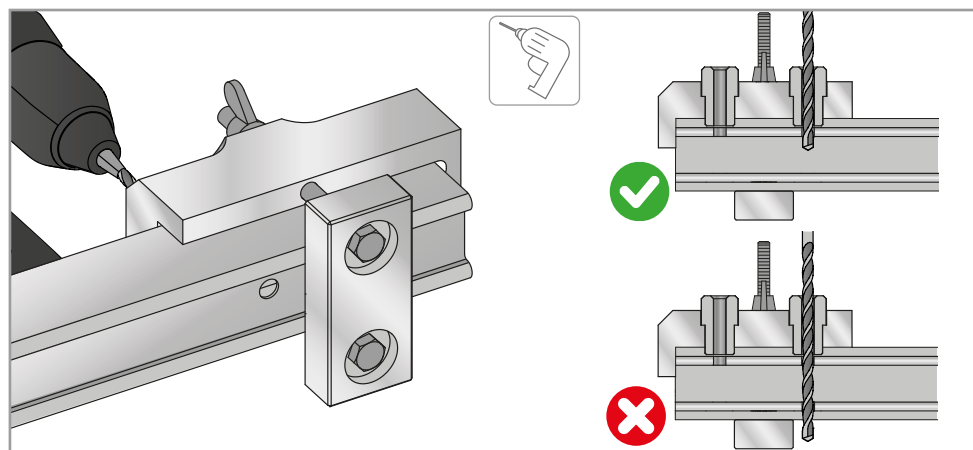
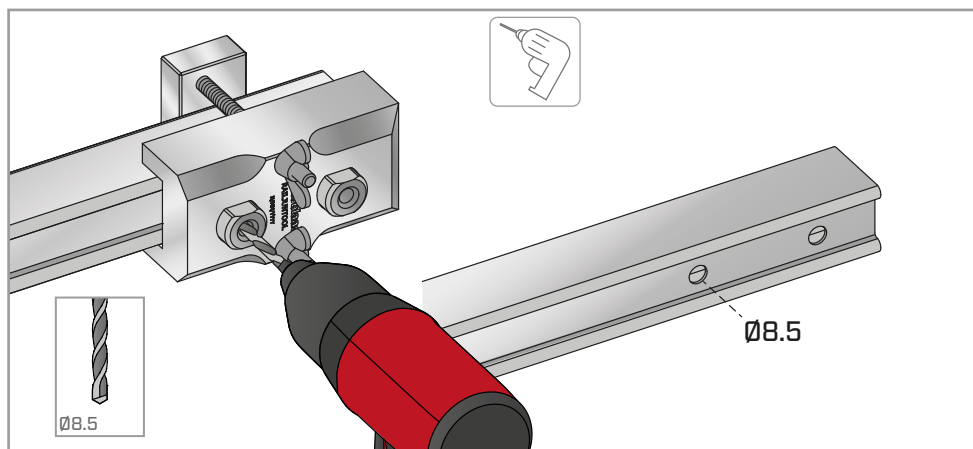


## RAILENDOPEN INTSTALLATION

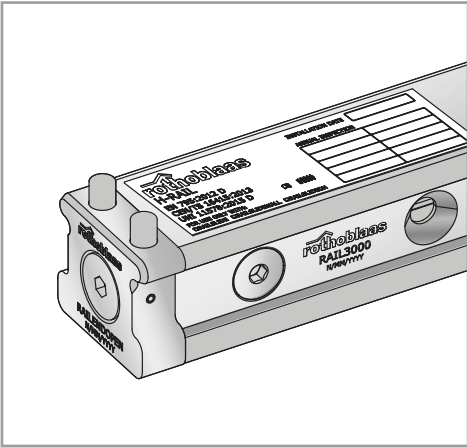
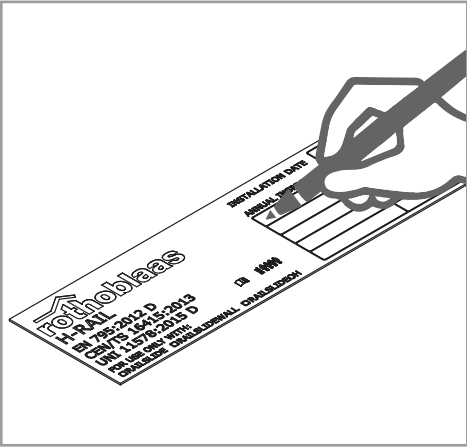


## RAIL3000 CUT AND RAILJUNTOOL USE





**RAILPLATE**









## Rotho Blaas SRL

05-23

Via dell'Adige N.2/1 | 39040, Cortaccia (BZ) | Italia  
Tel: +39 0471 81 84 00 | Fax: +39 0471 81 84 84  
info@rothoblaas.com | www.rothoblaas.com

